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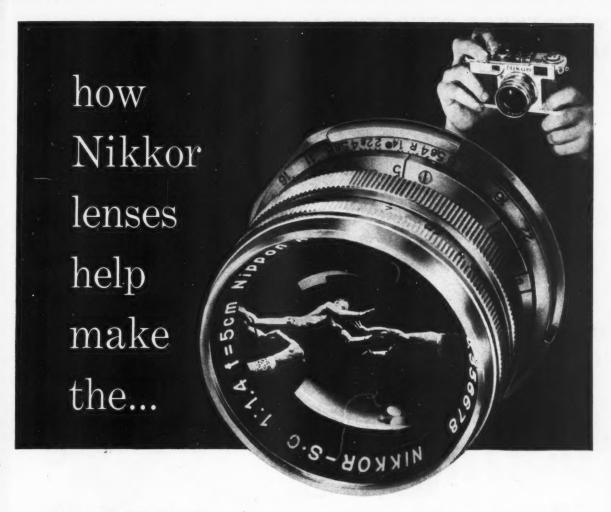
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Coffee Break with the Editors

THIS MONTH'S COVER . . .

This month's cover photographer is Leonard Balish. And this month's cover girl is Ruth Ebling of the Francis Gill Model Agency. Photographer Balish worked with an 8 x 10 view camera, equipped with a 12-in. Commercial Ektar lens and Ektachrome, Daylight type. His bounce lighting came from six 80-watt-second electronic flash units. The lens was set at f/22.

MR. WAUGH SPEAKS OUT . . .

Evelyn Waugh, the British author, has hardly ever (if at all) been known for his restraint. His latest published opinion states that painting as a significant art form is finished. The bones have been picked white. Painting has been replaced by photography. Waugh traces the slow death from 1839, when Paul Delaroche looked at a daguerreotype and said, "From today, painting is dead."

Waugh does feel that Delaroche spoke a bit prematurely because "for two generations there was life in the stricken body."

The British author, writing in *Playboy* magazine, takes a few swipes at modern non-representational painters, inferring that they might do well to take time out to learn their craft.

We think that Mr. Waugh has allowed his mental set against modern art to lead him astray. Photography has developed as an intensely creative medium. Painting at the same time has gone off a centuries-old track in search of new meanings, new ways of representing nature.

FOR LARGE NEGATIVE ENTHUSIASTS

What's all this talk about a trend to smaller cameras? A contract for the largest camera ever built on the West Coast has been awarded by the U. S. Air Force to Gordon Enterprises, North Hollywood, Calif.

This baby is going to weigh 5 tons and measure 25 feet in length when completed. A 30-in. lens will be mounted on the finished unit. An easel holding drawings and documents to be photographed utilizes 50 automatic magnets to keep things neat. The easel's motor drive will be controllable from either the camera body or easel position. The whole camera bed is to be shock mounted to eliminate vibration during exposure.

WITH TONGUE IN CHEEK . . .

We don't quite know what to think of this one. Since it came through the proper channels, we'll pass it along.

Clarence Leino, West Allis, Wis., photographer, declares that he set out to take a picture of a "black cat in a coal bin at midnight" after hearing a fellow photographer talk about it for some years. You can see the result for yourself. To make the shot authentic, Leino claims to actually have taken it



CLARENCE LEINO

Next subject, inside a whale.

at midnight using a borrowed but willing cat placed in a coal bin. He states exposure required was thirty times that needed for a normal subject at the same flash to subject distance. Leino reports that the picture was made at 1/100 sec., at f/8 on Super XX, with two No. 5 flashbulbs about a foot from the subject. Some crass fellow photographers claim the clock reads 12 noon.

COMING NEXT MONTH . . .

• Special Report from Photokina! Biggest and most important show of new equipment is held every other year at the Photokina in Cologne, Germany. This year, to cover the tremendous story of the latest in lenses, cameras, electronic flash and accessories, Modern has sent three editors. The definitive story will appear in our January 1957 issue.

• Winter Picture Taking: Don't put your camera away in the closet with your bathing suit. Winter picture possibilities are endless. A special section will include: 7 New Ways to Shoot Winter Color; an expert shows How to Use Window Light; be different—Try Slow Shutter Speeds.

• Plus: "Win a Career" and Polaroid Contest Winners announced, with a picture section of outstanding entries.



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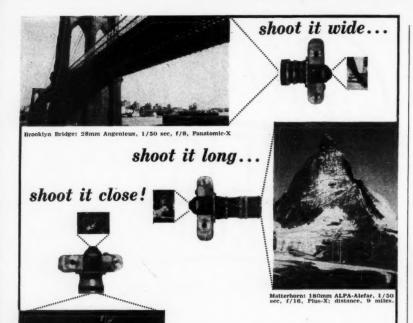
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ZEISS IKON CAMERAS ARE MADE IN WEST GERMANY



Grasshopper: 40mm Makro-Kilar E, 1/25 sec. you see what you get f/8, Pius-X; distance, 4 inches; scale, 2:1.

-with any lens, at any distance, and without any extra accessories!

Strikingly brilliant groundglass image gives: utmost ease in composing, absolutely accurate framing, critically sharp focusing, exact depth of field.



Check these exclusive ALPA features:

- The one and only camera to offer both through-the-lens focusing AND a separate, coupled rangefinder PLUS sports-type multificeal viewfinder.

 Finest grain groundglass combined with precision ground Kern prism gives you by far the brightest and sharpest image of any 35mm reflex.

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 Lightest weight lens mounts permit hand held pictures even with long telephoto lenses as slow shutter speeds.

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Alpa 4 (Reflex only) w/ALORAR 50mm f/3.5\$199.00 Alpa 5 (Prism Reflex) w/ALFINON 50mm f/2.8 preset\$319.00
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the YOUNG photographer

by HARRY A. GOLDSTEIN, APSA

Here are a host of ideas: safety hints for electronic flash; where to find college photojournalism courses; and a call for readers interested in a correspondence camera club.



At our school we have been using electronic flash units the past fifteen years. During all that time no student has ever received a shock from any of our electronic flash units. However, lately I have

been receiving mail from teachers of photography, camera club sponsors, parents, and some young photographers who want to know if electronic flash units are dangerous shock hazards. I felt that I could best answer all questions by giving a number of rules for the safe use of electronic flash equipment.

Safe use of electronic flash

Point No. 1. Keep your equipment dry. If water gets into any electronic flash equipment it can cause damage to both the equipment and the photographer. The trigger circuit of some electronic flash units could conceivably cause a slight shock to a photographer wading in water or taking pictures in the rain. This shock is not necessarily a dangerous one, but it could startle the photographer so that he might drop his equipment.

Point No. 2. Never attempt to dismantle or repair your electronic flash equipment. Most manufacturers warn against taking the unit apart because of shock hazard. While this shock may not be lethal, it can be dangerously strong and demands your respect.

Point No. 3. Do not use electronic flash (or flashbulbs) in an explosive atmosphere. A slight arcing at the shutter contact, or within the power supply, can cause a serious explosion. Point No. 4. Your electronic flash is designed to function satisfactorily with normal use. However, if you should accidentally drop it or give it a severe bump, it would be best to have it thoroughly checked by a competent electronics man before using it again. Many times your equipment can suffer damage and still work; however, the damage may cause shock.

(Continued on page 18)

DEC

What Shall I be?









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YOUNG PHOTOGRAPHER

(Continued from page 16)

Point No. 5. A periodic examination of the cord connections in any electronic flash equipment is a good habit to develop. I am thinking specifically of the lamp head assembly, not internal cord connections. Even the best of wires have a tendency to break with normal wear and tear.

Point No. 6. Do not store your unit where the temperature can rise above 120F. Do not leave it in the car during hot summer days. Two components can be damaged by heat: the battery and the capacitor. The resulting damage can cause a shock hazard.

Point No. 7. In using your flash equipment, if you notice any smoke or a crackling sound, turn off the equipment immediately and do not use it until it has been repaired or thoroughly

Point No. 8. Be careful how you dispose of the high voltage battery. There have been a few cases of children finding the batteries in rubbish and being shocked by them. I suggest that you put a tape over the terminals and that some safe way of discarding the batteries be adhered to. Reasonable protection is provided by the manufacturers to offset the shock hazard possibility, but it is possible for a battery to hand you a 300-volt shock even after being discarded.

While this list does not necessarily contain every possible rule for the safe use of electronic flash units, it will free your mind from any worry and enable you to have a lot of fun shooting pictures safely.

To Mr. George W. Ward, field operations representative of the Heiland Division of Minneapolis-Honeywell, I want to give due credit for passing on this information about the safe use of electronic flash equipment.

Requests swamp Argus

The Educational Services Division of Argus Cameras, Inc., at Ann Arbor, Michigan, has received an avalanche of mail from sponsors of Camera Clubs and teachers of photography. In many cases the Argus offer of its educational services and the precision Argus School Camera Kit was brought to the attention of these people by the young men and ladies who read it first in this column (Modern, November 1956). The director of the Educational Services Division of Argus Cameras, Inc., Mr. Robert R. Wilson, and his educational committee, are busy with your applications and requests for educational materials. He has asked that you please be patient in order that he and his workers can best serve you.

Want to be a photojournalist?

The new 1956-57 Photojournalism Directory is now available from Mr. J. B. Woodson, Jr., head of the Photographic Information Service of E. I. duPont de Nemours & Co. (Inc.), Wil-

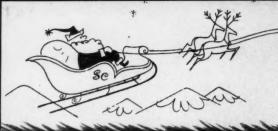
(Continued on page 27)

was the night before Christmas, and all through our store
The presents were piled up from ceiling to floor
And Santa, as usual came here for supplies
With a song on his lips and a smile in his eyes.



GIVE the gift you'd love to GET





And our well-equipped store once again is the place For Santa to start on his holiday race O'er city and village, o'er forest and foam Bringing holiday presents to everyone's home.

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Bell & Howell WILSHIRE with exclusive SUN DIAL \$3995

Just "dial the sun"-sight through the picture-window viewfinder that's bigger than on any other 8mm movie camera-and press the button! Right then you begin taking thrilling, action-packed movies in gorgeous color or black and white on the very first try! Get 56% more picture area with 10mm f/2.5 lens-crisply sharp pictures under a wide variety of lighting conditions. Lightweight and compact . . . but ruggedly built to take hard knocks.

Here is the story of Bell & Howell's SUN DIAL SIMPLICITY!



No distances to estimate... No other adjustments to make... Just check the light and MC

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DIAL

Match the sun in the sky to the "sun" on the dial and you're ready to shoot the exciting pictures you've dreamed of making! No wonder they call this the "World's Easiest-to-Use Movie Camera." It's at least as easy to use as the simplest of box cameras!

The WILSHIRE'S a camera marvel, they say,
The kind that makes movies the up-to-date way
With a SUN DIAL in front to keep tab on the light
So every exposure will come out just right.





World's only FULLY AUTOMATIC MOVIE CAMERAI

BELL & HOWELL'S 16 mm ELECTRIC EYE CAMERA

introduces an amazing new engineering achievement that revolutionizes movie-making! This spectacular camera has its own photo-electric meter that searches for and finds the correct lens stop then sets the camera for you! Adjusts its own exposure continuously as you pan from sun to shade and back again automatically!



9

CAMERA KIT

or out!

for taking movies indoors

make "close-ups" out of "long-shots"—all contained in a single compact, luggage-styled carrying case! Place for carrying films too. Everything you need for movie-making! Bell & Howell

brings Sun Dial simplicity to 16mm movies!

AUTO LOAD—Just match the dial to the sun and you're ready to shoot!

Precision construction throughout. Get 56% more picture area with 20mm f/2.5 Sunomatic lens. Five calibrated speeds including slow motion. Swift, sure magazine loading. 174 95

Wilshire camera with leather case . . . movie light bar with two photo-

floods . . . filter holder . . . and 21/2X telephoto attachment that lets you

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Santa's holiday presents and holiday plans
This season are largely for camera fans
And his helpers, as often in Yuletides of yore,
Include all the clerks that you know in our store.

Bell ε Howell SLIDE PROJECTORS

A gift the whole family will enjoy!



Introducing the exciting new ROBOMATIC!



Relax in the lazy comfort of your easy chair and —without touching the projector—enjoy a full tray of slides presented at their vivid best! An automatic timer shows each picture for as long as you want...then automatically changes to the next one! Brilliantly sharp 5" coated lens. Sunshine bright 500-watt lamp. Superb cooling that gives best protection for your slides. A new adventure in slide-viewing pleasure!

Complete with timer and case



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Deluxe Model D 2x2 SLIDE PROJECTOR

Whisper-silent performance in a precision-crafted projector that features "Wind Tunnel Cooling." Protect your favorite color shots so they stay as beautiful as they were the day you made them! Easy, fingertip roller-bearing focusing. SELECTRON-Semimatic Changer—you never have to touch a slide by hand. Coated 5" f/3.5 lens with anti-reflection barrel. 300-watt lamp.

574/5

They will show you the last word in gadgets, besides All the new Bell & Howell projectors for slides.

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It's a present that's fit for the future as well!

A great gift! THE MOST POPULAR OF ALL SLIDE PROJECTORS

HEADLINER 303 Breathtaking is the word for the beauty of your slides when they're shown by this "best seller" projector! The HEADLINER 303 is a remarkable combination of precision craftsmanship and superb performance at a budget price. Brilliant screen image with 300-watt lamp, and efficient blower cooling provides slide safety and operator comfort. Critically sharp 4" f/3.5 lens. Handsomely finished, self-contained carrying case.

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This new
ELECTRIC
CHANGER
makes your
conventional projector
FULLY AUTOMATIC



A revolutionary new Bell & Howell accessory that makes slide viewing an exciting new pleasure! Takes all the work out of showing slides by automatically changing from one view to another... you don't have to be near the projector to show a full tray of pictures! Sturdily constructed for long service, completely reliable. Just the thing to give that slide fan you know—or better yet, put it at the top of your own "Wanted for Christmas" list for getting real viewing comfort! Fits most Bell & Howell and TDC slide projectors.

Only \$23.50 if ordered in place of Selectron changer on new Bell & Howell slide projector.

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Right now in our store we have ready for you A new tape recorder from B&H too And movie projectors, the large and the small, Whate'er your requirements, they satisfy all.





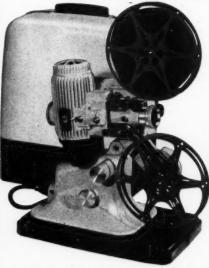
Famous 8mm Projector THE MONTEREY 579 95

Lightweight and compact . . . and so easy to operate! This handsomely fashioned, budget-priced projector has many of the features that you'd expect to find only on a much more expensive model. These include a swing-out lens for easy threading . . . a fast power rewind . . . and a big, bright 500-watt lamp. 400-foot film capacity, enough for a half-hour show. Coated f/1.6 lens. Built-in carrying case of rugged die-cast aluminum.

MONTEREY Deluxe with reverse (not shown) \$99.95



Includes Monterey 8mm camera, leather case, 500-watt
Monterey projector, movie light bar, photofloods, \$147
preview screen—even a cartoon film!
with Wilshire camera—\$137.00



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THE DIPLOMAT 16mm Projector (Illustrated). Bright, largerthan-life, flicker-free movies of brilliant clarity. 400-ft. film capacity, 2" f/1.6 coated lens. All-gear drive with carrying case \$299.95 STATESMAN 16mm (not shown) \$199.95

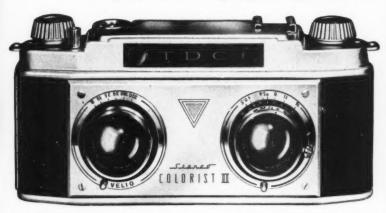
REGENT 8mm Deluxe with reverse (not shown) \$179.95

For pictures that stand out, the kind called 3-D, The B&H line is all ready to see.

Just compare the equipment till everything's clear And you'll always be glad that you dealt with us here!

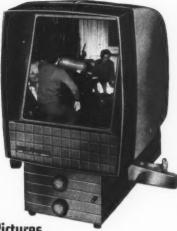


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TDC COLORIST II—Now the World's "Easiest-to-Use" Stereo Camera is easier to use than ever before! That's because the COLORIST "II" features a coupled range-finder for diamond-sharp focusing on every shot you take! Automatic double-exposure prevention. Beautifully finished die-cast aluminum body. 35mm f/3.5 Rodenstock Stereo-Trinar lenses, Gauthier flash synchronized shutters with a range from 1/10-1/200 seconds plus Bulb.

A precision instrument for taking living pictures—in depth! \$9950



Pictures leap to life in 3-D WITH STEREO PROJECT-OR-VIEW

Brilliant realism either on screen of 72 sq. in. black viewing plate! Twin 3" f/2.8 coated anastigmat lenses, 300-watt blower-cooled lamps. Selectron changer. For 2x2 slides.

\$144.50

Stereo Table Viewer \$119.50

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Studio-Perfect sound with the MIRACLE 2000

You'll marvel at the exceptional clarity and velvety richness of the entire tonal range as reproduced in true high-fidelity by this magnificent recorder! 4 big speakers in a smartly fashioned mahogany cabinet.

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STEREOTONE PORTABL

Three motor drive, push-button controls. Two-speed operation, big round 10" speaker for console quality. Die-cast aluminum housing. \$269.50



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Compa If y write t to be

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YOUNG PHOTOGRAPHER

(Continued from page 18)

mington 98, Delaware. This directory contains the latest information on courses in photography offered in our colleges and universities. If you are interested in a career of photojournalism you will find the facts here.

Mr. J. B. Woodson, called "Woody" by those who know him, was surprised at the great number of requests for the courses of study in photography. In fact, he would like to have other camera club sponsors and photography teachers send in their outlines. He says, "Sharing our knowledge is the best way to help each other." I would like to see you make up an outline of the things you would like to learn in photography. Send it in to "Woody." It will be a different approach and give other folks an idea of what young menand women of today think is important in photography. The duPont company has a fine collection of aids which you can use to further your knowledge of photography. Need I say, they also manufacture photographic papers and film of all kinds.

Corresponding camera clubs

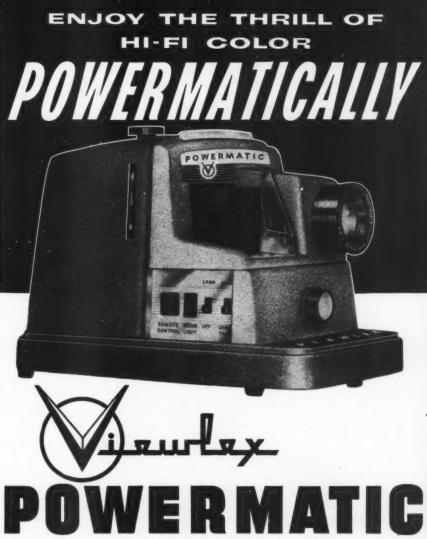
From Lampasas, Texas, Donald Howard writes, "I live in a small town where there are only two young 'camera bugs.' I am wondering if there are any corresponding camera clubs in existence?" I personally do not know of any such clubs; if you do, please write to Donald Howard, P.O. Box 430, Lampasas, Texas.

Mr. Howard's letter has set me thinking that here may be others in this great vast country of ours who would like to belong to a camera club, but live a great distance from other young "camera bugs." If there is no "correspondence camera club" for young photographers in our country, here is an excellent opportunity for someone to serve as a sponsor. He could coordinate their activities by mail using round-robin letters. They could hold their own contests by mail using 4 x 5 in. pictures. There are many ways all concerned could have a lot of fun. For example, they could call themselves the All-American Camera Club, or the All-Points-of-the-Compass Camera Club.

If you are interested in this idea, write to Donald Howard, as he seems to be a young man with good ideas.

I have certainly enjoyed reading your letters because they bring back many memories. I think that I have made every possible mistake one can make in photography. Hence, despite my desire to answer every letter, I must pick those that are of greatest interest to all.—THE END

Harry A. Goldstein, APSA, BA, MA, and teacher of photography at the Tucson, Arizona, High School has taught photography and been the sponsor for the Badger Camera Clickers for the past fifteen years.—Ed.



Built in automation, so automatic, that it runs itself! For completely automatic projection of 2 x 2 and Bantam Slides; 500-watt illumination and "king sized" optics assure astonishing brilliance with corner-

to-corner slide coverage. Powermatic is loaded with exclusive features! Built-in room light control — turns room light off when projector is turned on. Control projector from across the room with remote control button.

Automatic Timer — set the timer to operate at any interval up to 60 seconds and your Powermatic runs automatically! Timer overide button selects new slides at will and the timer hold button permits prolonged

viewing of any slide. Directional control operates projector forward, re-

verse, or repeat. Touch the sensitive Touch-Bar control, at any point and your slide changes automatically.

Precision cast-aluminum body with tuckaway storage compartment for power cord. Handsomely styled in two-tone brown and golden tan. Complete with sleek, slip-on aircraft luggage type case and 6 trays for \$119.50. Remote control cord \$4.95. Automatic timer \$24.50. Extra trays \$1.00 each. F/2.8 lens \$9.00.



PROJECT-O-MATIC

300 watt, fan-cooled, automatic 2 x 2 slide projector — \$79.50 including case and 6 slide trays. 500-watt model, \$88.50.



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NEW ROLLEI ACCESSORIES!



Rolleiguard all-metal eveready carrying case

Modern styling in a light weight but sturdy and practical metal carrying case. Dust proof, moisture proof, water-tight... will float. Has pivoted camera holding bracket for quickly swinging camera into shooting position. Gives camera complete protection. Ideal for professionals only and travelers. \$29.95



Rolleifix Tripod Head

Permits instant, clamp-on fastening of Rollei to tripod, thus eliminating need for screwing camera to tripod or bracket. Rolleifix is permanently attached to tripod head, and the camera is securely mounted or removed by simple lever action \$5.95

Rollei Conversion Filters



Available in two types, each in three graduations. Red-brown, to avoid excessive blues ... and Blue, to offset excessive red. All have outer bayonet receptacle to permit combining two filters. For present camera models, \$6.95 each — for 3.5 G models, \$7.45 each — for 2.8E models \$8.95 each

NEW positive safety combination carrying neck strap, adjustable in length only \$3.95

Burleigh Brooks, Inc.

10 W. 46th St., New York 36, N. Y. PONDER & BEST, INC.

modern COLOR

by ROBERT CRANDALL

Going south for a winter vacation? Here's information you need for color photography in any warm climate.

Let's do some careful preparation of our photographic needs for a successful, trouble-free color vacation. Right now we're going south. (Next month however, we'll cover winter and snow problems in color photography.)

Regardless of the camera you have, whether a box camera, 35mm, or a reflex, there is now a color film available for it. The only caution on cameras is, if you are going to borrow that old folding vest pocket job that's been in the family since the 20's, don't use it. Chances are the lens is not sufficiently color-corrected and will produce a distorted picture with color fringing.

If your vacationing mood predisposes a few purchases, invest in a filter or two and (if you haven't one already) an exposure meter. There are several basic situations which call for filtering the light before it reaches your film.

First, there's the distant scene—with atmospheric haze so often found in higher altitudes and mountainous regions, as well as in seascapes. For this you need a filter which will control the passage of haze-producing ultraviolet rays. Some photographers use a filter like the Haze #1 (equivalent to the old Wratten #1) which eliminates ultraviolet radiation without affecting other colors much. In fact they leave this filter on the lens at all times.

Two other filter types, the Skylight, and UV (15 or 16) will do the same job of absorbing the ultraviolet rays. But they will also warm up your picture somewhat. The warming effect of the Skylight filter is very slightly in the pinkish direction; with the UV series you get a distinctly vellowish tinge.

More on vacation filters

The Skylight filter is most widely used on days when the sky is deep blue but with the sun concealed by clouds, a building, or a tree. On such a day, the main light source is the zenith of the sky which has a color temperature much higher than that recommended for color films. You get cold, bluish pictures that are not particularly pleasing. The Skylight filter filters out the excess blue light. In effect this lowers the color temperature to normal, so pictures have correspondingly normal color values. Incidentally, do not confuse the above condition with a bright but hazy day without blue 3ky. On such a day the Skylight filter is not needed as the color temperature of the daylight may be somewhat lower (and the

light slightly redder) than normal and will reproduce soft glowing flesh tones that make wonderful portraits. Filter suggestions such as these correct for the source of light and not for the film, therefore they apply to all color films.

A meter on your vacation

To the experienced photographer the exposure meter is indispensable, and it should be to you if you want to bring back that extra plus in your vacation pictures. In a later column we will take up the proper use of a meter for color, but for now a few vacation tips. Used properly the meter will show that you should open up two f-numbers for that deceiving light under the portico, or perhaps tell you to close down one f-number at the beach, due to the high reflectance of light from the water and sand. Here again, a favorite trick of the professional is to read his own flesh tones to gain a representative light reading. Simply extend the left palm at arm's length and take the meter reading with the right hand by holding the photo cell about four inches from the palm. But be sure the shadow of the meter doesn't fall on your hand. This method should give exposure data for normal to light subjects, but for dark subjects exposure must be increased accordingly. Remember, the angle of light falling on your subject can cause up to two f-numbers differential in exposure so position your hand correctly when reading the palm: horizontally for a landscape, holding the meter at a 45-degree angle; or vertically for a person or front of a building. If you use a Norwood type incident light meter, hold the meter near your subject so that the cell is toward your camera position. With this meter you are reading the total incident quantity of light falling on the subject, and the meter reading does not change if the subject is light or dark. Nor does this type of meter fully compensate for the extremes in lighting, conditions such as side lighting or back lighting. In such cases, try shading the opal globe from the strong side light to get a truer meter reading for the middle tones of the subject.

Which film?

Before leaving for the sunny south, let's think about film. If you like color prints for your album and are not interested in projecting color slides, the answer is Kodacolor negative color film. Within reason, the new Kodacolor all-purpose film eliminates concern about color temperature of the light, whether indoors or outdoors. Just buy the film and shoot it. Color correction (Continued on page 30)

NOW...CAMERA AUTOMATION

in the most advanced degree

New automatic
Rolleifle*

New dual-range exposure meter, new automatic depth-of-field scale, plus other exclusive automatic features keep Rollei the most automatic camera of all!

First to give you automatic film loading, crank transport and shutter cocking, automatic parallax compensation, and LVS exposure system, Rollei also is first to give you a rugged, built-in exposure meter with dual-range for easy reading and greatest sensitivity, useful for both reflected and incident light measurements, with a rugged photo cell with acceptance angle limited to the groundglass viewing area, and which can be read from the normal viewing position. Plus automatic depth-of-field indicator, visible from above, which shows only the zone being covered, thus avoiding confusion. In addition, these new Rollei cameras are equipped with lenses of the new five element, air spaced construction in both the f3.5G and f2.8E models, providing a vastly improved quality of definition and evenness of illumination. See these new cameras at your dealers, today: also examine all other models in the Rollei line. Literature on request.

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MODERN COLOR

(Continued from page 28)

is attained during the printing of the Kodacolor prints, and the results are quite satisfactory.

If color transparencies are your forte, you can choose from Kodachrome, Anscochrome, or Ektachrome, depending on your preference. My advice is to shoot only one type of color film on a trip, for this reason: Each film has its own overall color characteristics. It is very disconcerting to your friends, when viewing your travelog, to have to adjust from the brilliant blue skies of Kodachrome to the more blue-green skies of Ektachrome, to the more reddish-blue skies of Anscochrome.

Planning helps

The best advice I can give-based on experience-is to plan carefully how many rolls you expect to shoot. Buy them all at your local store, before leaving; check the emulsion number on each box to see if all are the same. You will find that there may be a slight color difference between different emulsion batches which will not bother you when shooting one roll at a time at home. But, if you are going after big game with five or ten rolls, try to standardize all your conditions for better color uniformity. Next, plan on coming home before sending your film out for processing if your stay is only for two weeks or so. In foreign lands, the processing may be good, but you might not get your films back before you leave. In Cuba, the manager of Eastman Kodak Stores told me that they send all Kodachrome to Mexico to be processed. He told me that it takes only one day for processing, but that customs delays it for two weeks afterwards. The slight change that may occur in the latent image of your film is not objectionable and certainly not worth a mismailing of some type. If you must mail unprocessed film home from foreign lands, for safety's sake mark the package "Unprocessed film. Do not open or X-ray." After exposing, do not seal up the roll in foil or cellophane as you may lock in moisture, and this, combined with heat, can wreak havoc with your pictures. Pop the film back into its box and store it safely away in your suitcase, but do not leave it in your sun-heated car. Don't worry about having an unexposed roll or two left over. Just put the film in your refrigerator and it will remain stable for several months, as long as the tropical packing is undisturbed.—THE END

Mr. Crandall is president of Robert Crandall Assoc., Inc., custom color processors and printers, and has long experience in the color field. He was formerly a color research engineer for Eastman Kodak Co. He is also a photographer himself, and does a great deal of coverage of art and museum stories for Time and Life, in addition to taking pictures for his own pleasure.

DEC

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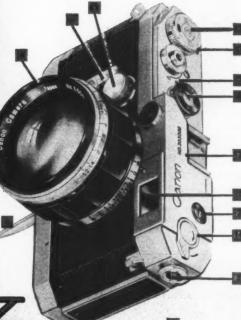
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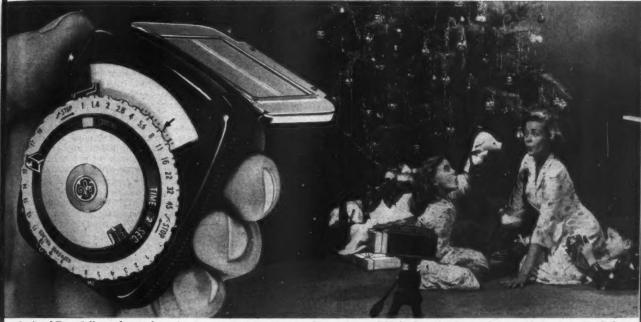
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Plus these features: Fully automatic single-stroke film advance and shutter cocking * Brilliant, single-window coupled rangefinder/viewfinder * Famous ROKKOR 45mm 4-element f/3.5 coated lens * Fully synchronized OPTIPER MX precision shutter (1 to 1/300 sec. & bulb) * Click-stop diaphragm.

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Ways and Means

by ARTHUR ROTHSTEIN

Technical Director of Photography, Look Magazine

News about an experimental high speed film; also what ASA exposure indexes mean in terms of actual shooting.



When a representative of a film company predicted about a year ago that photographers would be making snapshots by the light of the moon, he was not being sensational. That night is closer than you think!

Recently I tested an experimental panchromatic Type B sheet film which is being manufactured and made available in limited quantities so that any improvements and modifications may be quickly incorporated. I can't tell now who makes it, but as an indication of the film's sensitivity, I made a portrait in total darkness with two ordinary household flashlights obtainable in any 5 and 10 or hardware store. Here is a lighting setup that is cheap, portable and easily available!

The exposure was 1/25 second at f/4.5 with the lights about 5 ft. from the subject. This indicated that the exposure index was 6,400. Development was for 10 minutes in DK-60a.

This film is intended for action photography under existing illumination. It is already in use by some news photographers who cover track, boxing, baseball or football at night in flood lighted arenas.

The film shows moderate graininess and will permit 5X enlargements. It has a slight fog level which is considered normal. Caution should be exercised in extending the developing time to achieve higher speeds because it may result only in greater fog and excessive contrast. Certain fine-grain developers should not be used because they tend to reduce the emulsion speed.

Although this new emulsion is of immediate use to the professional only, it indicates that progressive film manufacturers are constantly striving for higher emulsion speeds.

ASA exposure indexes

The decision of the Weston Electrical Instrument Corp. to use ASA exposure indexes on its new Master III meter is a step forward in the elimination of confusion about the speeds of films. Practically all exposure meters and calculators now use indexes determined by the ASA method.

In fact, one of the latest meters to appear, the GE Guardian, has ratings up to 12,000!

The establishment of standards for measuring film speeds is only one of the many activities of the American Standards Association, a service organization supported by industrial companies, trade associations, consumer groups and technical societies. There are at present about 1,500 American standards for products used in many manufacturing fields.

The Weston method of measuring speed was similar to the German Scheiner or Din (another German system). It was based on the exposure required to produce a given density.

The ASA method is based on the exposure required to produce a negative with good shadow detail when the brightness range of the scene is 32 to 1. Film is given normal recommended development and a safety factor of 1½ stops is added for variations in shutter speeds disphyagem openings light

ter speeds, diaphragm openings, light transmission of lenses and human errors in estimating the light.

With an understanding of what ASA exposure indexes mean and how they are determined, the photographer can make any film work at higher speeds if compromises are made with the ASA standards of quality.

If no errors are made in meter reading, the film can be rated at 1\frac{1}{3} stops faster, eliminating the ASA safety factor.

By filling in the shadow with reflectors, flash or other lights, the brightness range is compressed and this has the effect of increasing the film speed as much as 2X (or one f-number). If the shadow detail is unimportant, as in much of the current available darkness photography, the effective film speed may be pushed another 50 to 60 percent.

Finally, more vigorous development for longer periods will force the film speed higher at the expense of coarser grain, more fog and greater contrast.

Depending on the degree of departure from the ASA index, the photographer may expose film at indexes as much as 8X higher than the published rating.

It must be realized, however, that these manipulations of film speed are good only with certain subjects, to create dramatic effects, or under special lighting conditions. For best results, the rule is to follow the manufacturer's recommendations.

(Continued on page 38)

NOW there are

Minolta REFLEX CAMERAS

... for PERFECTIONISTS who are not afraid of saving money

Yes-now there are two superb reflex cameras for those who can recognize extraordinary quality even under the disguise of an extraordinarily low price tag. At \$99.50, the MINOLTA 'Autocord' is ranked by leading professionals as fully the equal of automatic twin-lens reflex cameras in the \$200-plus category. For just a bit more, the MINOLTA 'Autocord L' offers every feature of the 'Autocord' plus a built-in exposure meter system that pretty nearly thinks for the user. It's difficult to choose between the two-but it's the kind of difficulty you will enjoy. One thing is certain - whether you choose the 'Autocord' or the 'Autocord L', depending on your individual needs, you'll be getting more than your dollar's worth on every fifty cents you invest, Thatgoes for performance, ruggedness, picture qualityeverything! I.e. - you can't lose . . .

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Fully automatic film advance and shutter cocking * One-finger, singlestroke helicoid focusing * Famous ROKKOR 75mm 4-element f/3.5 coated taking lens * 75mm ROKKOR f/3.2 coated viewing lens * SEIKOSHA MFX fully synchronized precision shutter (1 to 1/500 sec. & bulb) * Brilliant Fresnel Viewing Screen \$99.50

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"888"—35MM Robot Slide Projector. Shows 36 slides automatically all by itself! F/3.5 5 WOLLENSAK lens; 500watt. With case and 7 Revere Magazine

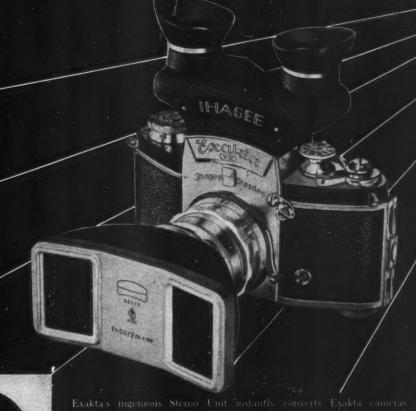
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you can preview your Stereo pictures in 3-dimensions, before you take them! This is possible only because of Exakta's inimitable, unique design!



Exakta's ingenious Stereo Unit 'instantly converts Exakta cameras for 3-dimensional photography. This permits you to take 2-dimensional and 3-dimensional pictures of the same subject on one roll of film, and switch from one to the other at will, without an instant's delay!

- 1. Stereo Device A is for taking 3-dimensional pictures at a distance of six feet to infinity. Attaches to your picture-taking lens.
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- 3. Stereo Viewfinder is designed on entirely new concept. It makes possible previewing your pictures in 3-dimensions! Stereo Viewfinder is interchangeable with penta prism and waist-level viewfinders of Exakta XV and V and becomes an integral part of the camera.

 Stereo Device A
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The 'SAMOCA 35' is new to America but not new to Americans. Over one hundred thousand American G.I.'s bought this camera in Japan and were thrilled with its quality and ruggedness!

Now the SAMOCA is available to all Americans, representing top-dollar value in a 35mm camera. The oft-used expression "never such features at such a low price" takes on real meaning when applied to the SAMOCA. It has that hard-to-define professional look which bespeaks precision engineering and extra-careful craftsmanship. The look that will make you proud to show your SAMOCA. Fully synchronized for flash and electronic flash, equipped with a

needle sharp high speed lens and a variety of slow and fast shutter speeds, it brings to the amateur photographer the versatility of a high priced camera at a price just a little above that of the most inexpensive cameras available.

Be as amazed as we were at our first inspection of the 'SAMOCA 35', ask your local dealer for a demonstration of the 'SAMOCA 35' and whether it be your "first camera" or your "extra camera," you will always be certain you bought not only wisely but well. The SAMOCA is manufactured by the SAMOCA CAMERA CO., LTD., No. 8, 2-Chome, Higashi-Ginza, Chuo-Ku, Tokyo, Japan.

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. 1114 FIRST AVENUE, NEW YORK 21, NEW YORK Canada: Precision Cameras of Canada Ltd., Montreal, Toronto, Vancouver

WAYS AND MEANS

(Continued from page 34)

Soft, direct flash lighting

The Heiland Foto-Mite flash unit is entirely new in concept and design. It is compact, lightweight and flexible in use. The most important feature is the quality of the light produced by the novel reflector.

Many photographers use their flash units right on the camera, for convenience, speed and maximum light value. The resulting pictures are often spoiled by harsh strong shadows on the background. Until now, the solution has been to bounce the light against wall or ceiling, thus creating a softer, more pleasing effect. Bounced light has the disadvantage of lacking the sparkle and brilliance of direct light as well as not using the full illumination of the flashbulb.

The Foto-Mite has an almost flat, polished reflector which allows some of the light from the flashbulb to spill over the reflector's edge, thus combining the soft, flattering effect of bounced lighting with the added sparkle of direct lighting.

Other features include provision for various sizes of flash lamps, brackets, shutter cords, and handles for offcamera flash, extension flash units, test light and exposure guide. The basic Foto-Mite sells for \$9.95.



Soft, direct-flash photography, right, is possible with the new Heiland Foto-Mite flash unit, featuring a nearly flat, polished reflector. Standard reflector shot, left, is shown for comparison. Each photo was made with a G.E. Powermite flashbulb.

Artists and photography

Two dissimilar and geographically separate publications (Graphic Arts Focal Point: Ilford, Limited, London, England, and Image: George Eastman House, Rochester, New York) have recently printed articles to indicate the creative painter's acceptance and dependence on photography.

Until photography arrived, most artists were dedicated to imitating nature, but the camera strongly influenced painters to move in the direction of the abstract, non-objective and impressionistic approach.

According to Beaumont Newhall, who recently acquired and translated some rare letters written in 1895 by the famous painter Edgar Degas, the artist is revealed as an avid amateur photographer. Degas was aware of

(Continued on page 40)

DEC

When, if ever, have you seen camera value like

YASHICA

We don't know what will impress you first when you pick up a Yashica — maybe construction — maybe workmanship — maybe features. But of one thing we are certain. You will agree with everyone who has seen these cameras, in recognizing that there never was such quality at such prices.

Here are the features and prices. But there's no way to convey the 'feel' of these cameras — except to urge that you see for yourself — any one, or all three — at your camera store.

You're due for the surprise of your life!



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All Yashica cameras take twelve 24 x 24 exposures on standard 120 film.



Eveready case \$6.00

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Eveready case \$8.00



WAYS AND MEANS

(Continued from page 38)

what photography could contribute to the painter. He caught fleeting images, produced unusual perspectives and organized compositions out of moving forms. The results of his work with a camera are evident in many of his canvases.

In recent years, the camera has become the sketchbook for many painters. It is true, also, that some of the less creative workers have literally copied in oils the compositions and expressions of their more gifted photographer colleagues, but the true artist uses the photograph as a point of departure.

One of America's most talented painters, Ben Shahn, has used his own photographs for many years as a basis for his work. Shahn is an accomplished camera craftsman and his 35mm photographs show his acute powers of observation, his natural sense of design and his aptitude for catching the unrehearsed moment. I have seen Ben Shahn at work with a handful of photographs, using the detail of action or attitude from one, the perspective from another, and incorporating some elements from each into a stimulating interpretive work of art.

Alfred Stieglitz gave photography stature as an art medium in its own right, but perhaps one of the greatest contributions of the photograph is that the painter of tomorrow will see through the camera lens.—THE END

SALON Calendar

* 19TH ANNUAL SPRINGFIELD INTERNA-TIONAL SALON OF PHOTOGRAPHY & 5TH COLOR SLIDE EXHIBITION, Springfield, Mass.

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Closes: Prints, Dec. 5 Slides, Dec. 12 Exhibit: Prints, Jan. 2-20 Slides, Jan. 2-13

Fee: 4 prints, \$2; 4 slides, \$1 Sponsor: George Walter Vincent Smith Art Museum Entry Forms: Marian D. McCarthy,

Entry Forms: Marian D. McCarthy, Salon Sec., George Walter Vincent Smith Art Museum, Springfield 5, Mass.

12TH CHICAGO INT. NATURE PHOTOGRA-PHY EXHIBITION, Chicago, Ill.

Closes: Jan. 19
Exhibit: Feb. 2-24
Fee: 4 slides, \$1; 4 prints, \$1
Sponsor: Nature Camera Club
Entry Forms: Cecelia Cleven, 5240
S. Campbell, Chicago 32, Ill.

*20th annual int. exhibition of photography, Whittier, Calif. Closes: Jan. 21

Exhibit: Feb. 9-24
Fee: \$1 for 4 prints or slides
Sponsor: Circle of Confusion Club
Entry Forms: Don M. Barrow,
14611 S. Painter, Norwalk, Calif.



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Get your HEILAND Strobonar now!

Put a Heiland Strobonar electronic flash on your camera now, and be set to capture on film all the fun and excitement of this coming Christmas morning.

A Strobonar lets you shoot with absolute assurance, no matter how poor the existing light. Its flash duration of only 1/2000 second "freezes" all action and lets you concentrate on your subject. And to make your confidence complete, the Pressmaster* lamphead, exclusive on Heiland Strobonars, gives you the wide-angle light distribution you need for even illumination of your entire picture area.

The Strobonars your photo dealer proudly offers are the finest ever built by Heiland. The two models shown here operate on 4 photoflash batteries—or built-in AC—and flash your pictures for less than one cent each.

Stop in your photo dealer's now and pick out the Strobonar that fits your camera . . . and be sure this coming Christmas, and every day, that you're set to take the clearest, most lifelike pictures you've ever imagined!

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(right) STROBONAR 61-A.

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Give the gift that "FLASHES! PREVENTS "LAZY" FLASHES! Mallory Photoflash Batteries and B-C Cartridges



Ordinary batteries gradually "slow up", in use or not. But Mallory Mercury Batteries provide constant peak power—perfect synchronization between shutter and flash for an amazing two full years of normal service.

The new 22½ volt Mallory Mercury Battery is the same size as ordinary batteries—fits perfectly into flash guns with built-in capacitors. And for standard flash guns, ask for the Mallory B-C Flash Cartridge—a completely self-contained Mallory Mercury Battery and Capacitor.

Give the gift that ends "Battery Fatigue"... assures thousands of perfectly-timed flashes... saves on wasted film and bulbs. There's a Mallory Mercury Battery for every type of flash gun.



the CAMERA CLUBS

by MABEL SCACHERI

Are you guilty or not guilty? Run through this 15 point check list of avoidable camera club mishaps.



Just how well is your camera club being run? Suppose an efficiency expert were to turn his cold, fishy eye upon a couple of your club meetings. Would he report that everything moved smoothly,

on time, pleasantly, intelligently? Or would the old crab say that if the bunch of you ran a business that way, you would go broke in six months?

Try this check-up test

Read over the 15 charges. On how many counts do you plead guilty?

1. Inhumane Treatment of Guest Speakers. Do you always provide transportation both ways, a helping hand with this generous guy's heavy load of mounted prints, and the courtesy of a good dinner before the meeting?

2. Lamentable Lateness. Does your 8 o'clock meeting start at 8:30 or 9? Do members straggle in, later and later?

3. Boring Blah-Blah. Does your meeting start with a half hour of long, tedious announcements, while the speaker or judge fidgets? Couldn't you convey most of the information to members by postcard? Couldn't you shorten the unavoidable gab to about 5 minutes?

4. Invisible Pictures. Can those in the back row get a glimpse of the prints in the light box or the slides on the screen? Try sitting back there. I'll bet you will raise box and screen from 12 to 18 inches higher.

5. Fatal Forgetfulness. How many meetings are wrecked or badly delayed because nobody remembered an extra bulb for the projector, or a long enough extension cord? Is someone always near the wall socket to prevent stumbling feet from yanking out the cord? 6. Messed-up Projection. Do you ever have a color slide night when no slide is projected upside down? Sure, the goof put the dot on wrong. But a five-minute check-up would discover and correct the error, before projection time.

7. Inaudible Speakers. On print or slide nights, do you let the judge mumble (Continued on page 186)

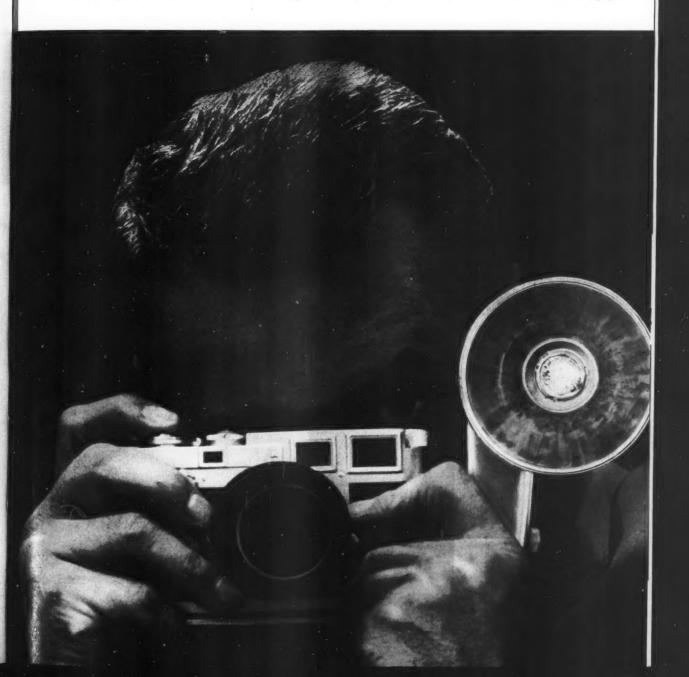
HERE'S WHAT HAPPENED WHEN TOP EXPERT TESTED NEW G-E POWERMITE BULB

Howell Conant reports on remarkable performance given by tiny new bulb!

"I was assigned to cover a rehearsal of an NBC-TV color spectacular," says Howell Conant, veteran magazine pro. "I knew that meant taking all sorts of shots, from 3 feet to 1000 feet, in color and black and white. I also knew I'd have to shoot rapid fire—take a great number of shots quickly.

"There's only one flash bulb that combines terrific punch

with the convenience so necessary for these location jobs—the new G-E PowerMite. With its 66% boost in light output, PowerMite is just about the most versatile bulb in the world! I slipped six packs of PowerMites—both blue coated and clear—into my pockets, and hardly knew they were there. Then, with my Leica M3, a few rolls of film, and my PowerMites—I was off!" (continued next page)





For pictures at extreme left, Conant used Daylight Color Film (ASA 32) with blue PowerMite M2B. At shutter speed of 1/50th, Guide Number was 90. Second strip of pictures was taken with Indoor Color Film (ASA 25) and clear PowerMite M2, using the same shutter speed and Guide Number. Distances varied from 4 feet to 65 feet. 3-inch polished reflector used with flash gun on camera for some shots—extension flash as far as 20 ft. off camera on others.



Bambi Linn and Rod Alexander, dancing stars, stopped by PowerMite. Exposed for 1/50 second at 1/4.5, effective flash of light was actually 1/110 sec.



This 4 foot close-up was taken at f/19. Note color fidelity. At this short distance, very little light bounced off walls. Always open up a little on close-ups.

G-E

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Powers they fit is Conant's

NEW G-E POWERMITE BULB STARS AT NBC SPECTACULAR

Howell Conant Shoots Black and White at 1000 Feet-Color at 65!

"I really put PowerMite through the paces," says magazine pro Howell Conant. And here's his report:

- Clear PowerMite stops action—its light burst is actually 1/110 second. Gives a Guide Number of 90 when used with flash-type color film rated at 25.
- New blue PowerMite, when used with outdoor color film rated at 32, also gives Guide Number of 90. You can change from Type F and clear PowerMites to Daylight film and Blue PowerMites without changing Guide Numbers.
- Here's how PowerMite gets B&W shots at 1000 feet: f/1.4 at 1/25th; develop Tri-X in straight Dektol, 5 min. at 75°.

"These NBC shots speak for themselves," says Conant. "This new bulb is the greatest thing that's happened to flash photography since G-E introduced the 'midget' bulb 16 years ago!"



PowerMite shoots for distance. With Tri-X Guide Number of 250, Conant used single PowerMite to capture girl (center) 175 ft. away. Exposed for 1/25 sec. at f/1.4, this shot received normal development. Distance to first building behind girl, 250 ft.; to second building, 375 ft.; to building at far right, 575 ft.

EASIER TO CARRY...QUICKER TO USE...THE PERFECT BULB FOR TOUGH ASSIGNMENTS!



PowerMites are so tiny and compact, they fit neatly into small compartment in Conant's slim carrying case.



On the set, Conant easily slips six sleeves of PowerMites into his pockets—they scarcely make a bulge.



With small camera, small reflector, tiny PowerMite bulbs, Conant is free to concentrate on subject and composition.

UP-TO-DATE FLASH EXPOSURE GUIDE NUMBERS FOR NEW G-E POWERMITE BULBS (M2 AND M2B) including data on all new films

Exposure: Use X or F synchronizer setting at 1/50 second or slower. For f/number, divide proper Guide Number by distance in feet from lamp to subject.

	POW	ERMITE M2	
Film	Tungsten Exposure Index	Guide Numbers	
		3"-4" Polished Reflector*	4"-6" Polished Reflector with adapter
Kodachrome "F"	16	70	55
Panatomic-X	20	80	60
Kodacolor CU** Ektachrome "F" Anscochrome "Flash"	25	90	70
Supreme	32	100	75
Verichrome Pan All Weather Pan Plus-X	50-64	130	95
SuperPan Press	80	180	140
Tri-X, SX Pan	160-250	250	190
	POWE	RMITE M2B	
Kodachrome Daylight	10	50	36
Anscochrome Daylight Ektachrome Daylight	32	90	65
Kodacolor CU**	32	90	65

*NOTE: for satin reflectors, open lens one-half stop, or multiply Guide Number by 7/10.

**Use PowerMite M2B with Kodacolor for daylight shots only. All others, use PowerMite M2.

PERFORMANCE DATA:

Range of usefulness: Normal exposure is obtained from 4 feet at f/22 to 45 feet at f/2 with Anscochrome and Ektachrome roll film; with fast black and white film, normal exposure range is 7 feet at f/22 to 125 feet at f/2.

Reflectors: 3 to 4 inch polished reflectors especially designed for PowerMite are tops in efficiency-pour nine times as much light into the picture area as the bare bulb would.

Adapters: Low-cost adapters currently available center Power-Mites accurately and give the same even coverage for most reflectors as is obtained with larger bulbs.

Color quality: M2 on type "F" and M2B bulbs on daylight-

type films give excellent color quality without filters. At slow speeds-1/25, 1/10, 1/5, 1/2 and 1 second-M2 gets beautiful effects in combination with prevailing tungsten illumination.

Synchronization: It's F and X-Synchronized. At 1/50 second, you get the full flash of the light at all f stops.

Multiflash: In combination with repeating flashtubes or other types and sizes of flash bulbs, PowerMite gives new versatility in controlling the amount of light in limited picture areas.

Focal Plane: Can be used with all focal plane cameras with F or X synchronizer setting.

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DECE

What's Ahead?

by LLOYD E. VARDEN

Common sense is nonsense when misapplied. Or, what is fact and what is fancy?



S

One of my readers took me to task recently about some views I had expressed on color vision and the possibility of "explaining" why we see colors as we do. I have always tried—perhaps ineptly—to show that color

vision is such a complex phenomenon that it is not possible, at this stage of the art, to have a color photographic process which can duplicate it. But in any attempt to show a relationship between natural color vision and color photography it is hardly thinkable, in my opinion, to avoid a thorough exploration into the "laws" that govern the color visual process. But my reader argued that "common sense" should convince anyone of the futility of all efforts to explain the real meaning of the term color and how it is generated in the brain. Moreover, in his opinion, it is useless to draw parallels-however cleverly stated-that purport to correlate color vision and the processes of color reproduction. In other words, two visual experiences are involvedone in viewing the scene, the other in viewing the reproduction. Common sense should make this evident to anyone (so he wrote), even to scientists who continually strive for explanations of the observed differences. As you can well imagine, my attitude toward such sloppy thinking is rather intolerant, but yet sympathetic.

There is much that can be said in favor of common sense, but it is a barrier to progressive thinking if relied upon excessively. When a scientist speaks of color vectors, color solids, color attributes, etc., he is not trying to explain the meaning of "color" in terms that will lead to a mental picture of how the brain functions in producing color perception. He is simply making an effort to correlate color phenomena, as "seen," into a reliable system that can be used for predicting what one is likely to see before actual ob-

servation.

This is the manner of science as a whole. Take physics for example. At one time Newton's ideas of space, gravitation, ether, etc., were revolutionary because they managed to correlate many

(Continued on page 50)



Which will it be ...

35 MM





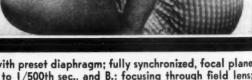
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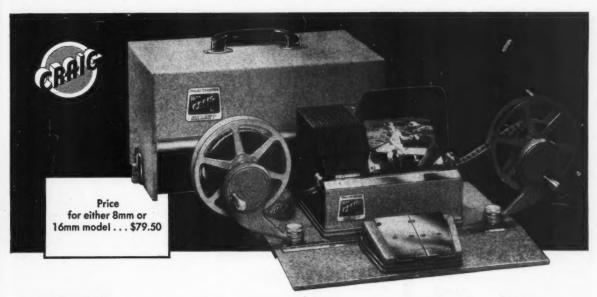
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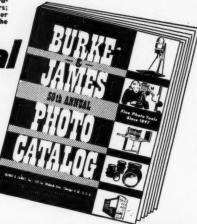
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WHAT'S AHEAD

(Continued from page 47)

apparently unrelated things within the bounds of a few simple formulas. At no time did Newton attempt to explain what ether, force, mass, etc., were in such a way that a mental image of them could be made. Now in the course of time physicists studied phenomena which failed to fit the Newtonian formulas. Something was wrong, either with the measurements or the formulas. Eventually the formulas were revised to permit a better correlation of measurable events, but no better "mental" picture of force, space, gravitation, etc., resulted. The "concept" of the ether was even abandoned because it was no longer necessary. As the newer world of physics developed it became more and more removed-according to non-scientists-from the common sense world they had accepted before. Actually, it became no less obscure than it ever was.

For example, the disintegration of a cosmic particle in a laboratory apparatus can be measured in terms of a time interval. We like to think that we know what a "particle" is and what a "time interval" is only because we form a mental picture of them to work with. Now the same cosmic particle in outer space, traveling near the speed of light, requires a longer time interval to disintegrate. This does not comply with common sense, but yet the measurable time differences of the observed phenomena can be correlated if we drop the Newtonian idea of space and adopt a new space concept. The improved correlation of the facts allows more accurate predictions to be made on cosmic particles under a wider range of physical states, but still there is no improvement in the mental picture of what is going on.

We could take more down to earth examples to bear out the point, but this is dangerous for winning an argument, since down-to-earth examples concern things about which nearly everyone has preconceived notions. We say, for example, that the area of a circle equals *r2 and are convinced that this is completely true. Yet we know that the value of "pi" is never expressible as a definite number. It has as many numbers as we wish on the right of the decimal point. Therefore, it is impossible to give a true value for the area of a circle in spite of the common sense notion that a circle must have a definite area.

What this all adds up to is that common sense is not a reliable criterion for judging the merits of a scientific development. In developing the science of color to the point where all its now unrelated oddities can be "explained" by virtue of formulas that always work, we shall deviate greatly from common sense. When such formulas are derived they will be quite useful, but they will not tell us how the brain functions to give rise to color perception.—THE END



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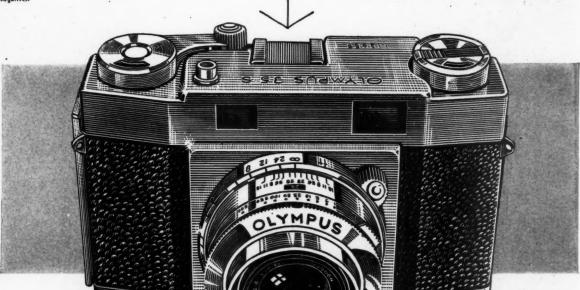
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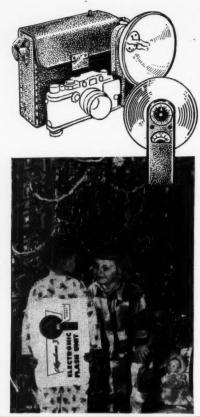
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PICTURES in a MINUTE

by JOHN WOLBARST

Old soldiers may fade away, but there's no need for Polaroid prints to follow their example.



"My Polaroid prints are turning brown and fading," writes a lady reader. And, with justified alarm she wants to know why. This, of course, is directly related to the question I frequently get: "Will Polaroid prints

last as long as conventional pictures?" Both questions get the same answer.

If you will take just a little bit of care in coating and storing your Polaroid Land prints, and follow the manufacturer's instructions on these two points, they should last as well as conventional photographs.

There are only two reason why Polaroid Land prints should fade, turn brown, or otherwise deteriorate by themselves: failure to coat them properly (or forgetting to coat them at all), and improper storage. Let's look at coating, first.

In each package of Polaroid Land film there's a glass tube containing a liquid-plastic-soaked wad of cellulose held in a special handle. This is the coater, an extremely important item.

After removing the print from the camera, first straighten it (photo, below). Then open the coater tube and



Remove curl by drawing back of print across table, or other edge, at 45-degree angle. Don't crease it!

with a few gentle strokes of the cellulose pad, coat the *entire* print with the liquid plastic. That means the very edges, too.

At first, the coater will be quite juicy, (Continued on page 58) Introducing.

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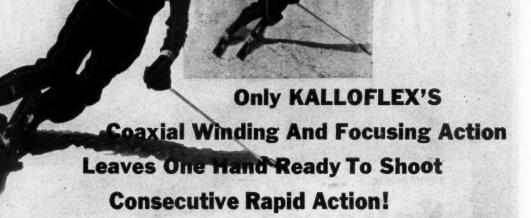
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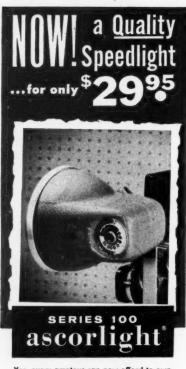
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PICTURES IN A MINUTE

(Continued from page 54)

so don't press hard—it's not necessary to flood the print. About the fifth or sixth print, the pad may seem a bit dry. Remedy: press it down firmly on one end of the print and squeeze out some liquid. Then distribute that glob of plastic with the pad.

At all times, coat away from the hand that holds the print, and be careful to hold the coater quite straight. If you tilt the pad, the hard plastic handle will gouge the print, leaving white scratches.

It takes a few minutes for the liquid to dry thoroughly (longer in humid, hot weather). When it does dry, your print is permanently sealed in a tough plastic coating. This protects it from fingerprints, dirt, etc. But mainly, it seals out the air, and the many corrosive fumes with which modern civilization pollutes the air. Some of these fumes contain sulfur by-products or compounds, and Polaroid Land prints are extremely allergic to these. So, the first step in keeping prints is proper coating. Don't use any other kind of coating liquid or wax. Use a fresh coater for each roll of film. And if you need some extra coaters, drop me a line-I'll tell you how to get them without charge.

How storage can ruin prints

The worst thing you can do to a Polaroid print is to smear the back with rubber cement and stick it into a black paper album. Both the cement and the black paper contain enough sulfides to damage the image.

For a few prints, use Polaroid's little album books, which your camera store has. For many prints, get an album with acetate sleeve pages (but remove black paper interleaves). Prints can be fastened to white cards or other surfaces with sticky-on-both-sides transparent cellulose tape.

I keep thousands of Polaroid prints in a standard metal card file. Each is in a 4 \times 5 in. Kodapak clear acetate sleeve.

However you store prints, keep them away from excessive heat and moisture. The top of a hot closet, or out in the garage, is no place for them to be.

How to save fading prints

Coat the print thoroughly. That may prevent further damage. If the fading or browning has not gone too far, send the print to Polaroid Corp. to be copied. There's a copy order form in each film package.

Incidentally, there's a whole chapter on Care of Prints in my book Pictures in a Minute, with much "info" I haven't room for here.

THE END



CHRISTMAS HINTS

for 21/4 square NEGS and PRINTS ... by Nega-File



Beautifully styled, ruggedly constructed, these Nega-Files are of solld, natural finish hardwood with heavy, brass-plated hardware throughout. Index and visible numerical guides provide fingertip reference. Glassine envelopes keep contents clean.

No. 24* Nega-File holds 900 single 21/4 squares	\$11.95
No. 22-2 holds 600 strips of two	11.45
No. 22-3* holds 300 strips of three	8.45
No. 22-4 holds 300 strips of four 214 squares	10.45

* Also available with acetate transparent sleeves.



If your dealer cannot supply you, order direct. Send for FREE Catalog and Filing Handbook No. 10.





For Christmas, give him the thrill of seeing his slides naturally, with both eyes, in exciting new depth and clarity. Give him Bi-Lens/35! Shows slides in their full brilliance — anywhere, any time. For all 2x2, 828 and Rollei "super" slides. Uses batteries or household current.



NON-ILLUMINATED

Bi-Lens 35

only \$4.95
Same as Deluxe model except that it uses natural light source.

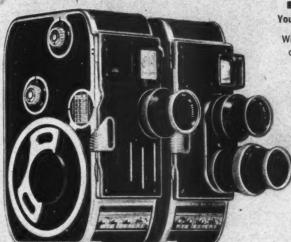
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You can't give or receive Jou can't give or receive Ja Finer Gift than Ja Finer Gift than

This Christmas, give yourself the finest – Bolex. The superlative

Swiss-precision craftsmanship that goes into every Bolex camera, projector and accessory has made the House of Paillard known the world over as the maker of professional-quality equipment for the amateur movie-maker. The experience of owning

Bolex is one to be enjoyed this Christmas . . . give the gift you'd be proud to own yourself – give Bolex.



BOLEX C-8 with standard "D" mount to permit lens preplacement. With Fi2.5 Lyter 1/2" FF lens, only.....

BOLEX B-8 with twin turret for instant interchange of lenses. With F:2.5 Yvar 1/2" FF lens, only . \$119.50

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Your Finest Value in 8mm Home Movies

With a Bolex 8mm movie camera, anyone can obtain top-quality, professional-like home movies. Amazingly easy to operate, Bolex cameras are versatile enough for such effects as slow and accelerated motion, stop-action, titling and animation. Advanced design and painstaking workmanship have given Bolex the technical features you most want.

8-8, C-8 FEATURES

- . Optical zoom viewfinder.
- * 8 speeds from 8 to 64 frames per second.
 - Single-frame filming.
- . Economical, reliable spool-film loading.
- . Standard "D" mounts permit lens changes.
 - . Geared footage counter.
 - Leather wrist strap and cable release as standard equipment.

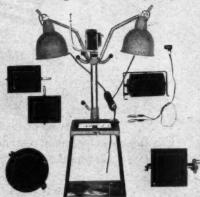
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OTHER BOLEX 8MM EQUIPMENT

As fit accompaniment to the fine B-8 and C-8 cameras, Bolex offers a superb line of supplementary equipment and accessories. In addition to those illustrated below, your Bolex franchised dealer will show you other items such as the Bolex Tripod, the Iris Vignetter, the Bolex Film Splicer and others—all of the same outstanding Bolex-Swiss quality.



M-8 PROJECTOR. The precision projection possible with the Bolex M-8 projector gives your home movies the showing they deserve. No other projector has the Bolex-patented FilmGuard to protect your irreplaceable films from damage. Weighing only 17 pounds with carrying case, the M-8 has a new, advanced cooling system, simple controls, and a smooth, quiet drive. Rapid rewind can handle 400 feet in 15 seconds. With de luxe Eveready carrying case, reel, oiler and powercord, only \$169.50.



NEW 8mm TITLER. The first well-designed, precision-constructed, professional-like titler for 8mm filming. The variety of special titling effects possible with this equipment is limited only by ingenuity and imagination of the user. Available now for Bolex B-8, C-8 and L-8 cameras . . . for other cameras at an early date. Basic equipment (platform, supporting stand with camera holder, and unique, new centering device) sold as unit for \$37.50; accessory kit for \$61.50. Complete titler only \$99.00,



BOLEX 8mm ACCESSORIES

Bolex Camera Cases - each made of genuine leather for perfect camera protection.

Compartment Case - hard leather, \$19.50 Eveready Case - quick, instant action, \$14.95

Twinzip Case - two compartments, only \$14.50

Sure Fire Grip - insures a firm, steady grip while operating camera. Can be used with all Bolex cameras, only \$14.95

Superb Kern-Paillard Lenses – finest for any movie camera, specifically match Bolex cameras.

Telephoto - Yvar, 36mm F:2.8, \$62.50

Wide Angle - Pizar 5.5mm F:2.0, \$79.50 Switar 5.5mm F:1.8, \$119.50

Filtin - Four filters built into lens: Daylight, Skylight, Yellow and Red, 12.5mm F:2.8, \$69.50 (all lenses with standard "D" mount)

BOLEX SWISS PRECISION . . . a marriage of skill and science

Finer Gift than BOLEX

AND FOR OUTSTANDING 16mm FILMING
THE BOLEX H-16 LEADER





Containing more practical features than any other comparable 16mm camera, this fine Swissprecision H-16 Leader will satisfy both the amateur as well as the expert and professional. With the Bolex Leader you have at your fingertips all the features needed to produce fine home movies of the children, exciting travel films or prize winning amateur movies. Lap dissolves, ultra close-ups, titling, animation, or a multitude of other effects, can all be shot with the Bolex Leader. Look at this list of Leader features, some of them Bolex exclusives:

FEATURES OF THE BOLEX H-16 LEADER

- Pin-point film registration with the exclusive "Registrator Claw"
 - Exclusive autoloading
 - Full film rewind
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- Speeds from 8 to 64 frames per second
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 Three-lens turnet

The Bolex H-16 Leader with F:1.9 Lytar lens is only

26950

See these fine products of Swiss-precision craftsmanship at your dealer. For the name of the Bolex franchised dealer nearest you, and for details on how you can obtain copies of the special Christmas issue of the BOLEX REPORTER magazine — write Dept. 11 at the address below.



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... bringing you the finest in 8mm and 16mm home movie equipment.

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end exposure problems, forever.



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WESTON exposure meters

The meters most photographers use





CAMERA BUYING GUIDE

213 STILL CAMERAS—currently marketed and discontinued models, divided into easy reference sections—35mm (all types); reflex $(2\frac{1}{4} \times 2\frac{1}{4})$ and smaller sizes); folding roll film; miscellaneous cameras. . . .

95 MOVIE CAMERAS—8mm and 16mm, magazine and spool, currently marketed and discontinued models. . . .

PRICES—both new and latest used selling prices, where available. . . .

IDENTIFICATION POINTS—serial number information, dates of manufacture, outstanding features which will help you to distinguish one model from another are illustrated and described. . . .

FLASH SYNC—if a camera has it, what type; if it's a non-sync camera, whether or not you should add sync; what type of sync to add; what it costs. . . .

(Editor's Note: This material, the result of years of research and checking, is the most authoritative single guide for camera buyers ever published. Most of the information is not available to the general public from any other source. It has been compiled by N. M. Grossman, Managing Editor of Photo Dealer Directory, under the guidance of Augustus Wolfman, Editor-in-Chief of Modern Photography. Valuable flash sync facts were supplied by A. C. Muller, camera repairman.)

35MM CAMERAS, ALL TYPES

THIS IS THE TIME of the 35mm camera. It is growing faster in popularity than any other type. By tradition compact, quick and handy to use, its range has been extended amazingly by new designs. New films permit picture taking under the most adverse lighting conditions; other films let you make giant blow-ups of startling clarity and sharpness. Even among less expensive models you find a wide range of shutter speeds and fast, well corrected lenses. All this ferment in 35mm means that there are great numbers of older model used cameras available. Nowhere else can you find the information about them, and the new cameras, which this Camera Buying Guide includes.

ALPA

Manufacturer: Pignons S.A., Gallaigues, Switzerland.

Importer: Karl Heitz, Inc., 480 Lexington Ave., New York 17, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridge films.

Lens: All models incorporate bayonet lens mount for interchangeability of lenses. Standard lenses are factory coated, with click-stop diaphragms. For Alpa Reflex and Alpa Prisma Reflex: 50mm, f/2.8 Alpa Alfinon; 50mm, f/1.8 Angenieux Alitar; or 50mm, f/1.9 Schneider Xenon. For Alpa 4, 5, and 7: 50mm, f/3.5 Alpa Alorar; 50mm, f/2.8 Alpa Alfinon; 50mm, f/1.9 Schneider Xenon; 50mm, f/1.8 Kern Switar Apochromat; or 40mm, f/3.5 Alpa Makro-Kilar. Latest lenses have preset or automatic diaphragm. For the Alpa Reflex and Alpa Prisma Reflex, the importer supplied accessory lenses in focal lengths from 35mm to 300mm; for the Alpa 4, 5, and 7, lenses from 28mm to 3750mm are

Shutter: All models have focal plane shutter with speeds from 1 to 1/1000 sec., plus B and T. Alpa 7 has selftimer.

ALPA REFLEX



Introduced: 1947 Discontinued: 1952 Flash Sync: Factory installed. For FP type bulbs.

Special Features: Single-lens reflex

focusing, plus split-image type rangefinder which couples to the 50mm lenses; double exposure prevention; removable back.

Last List Price: With 50mm, f/2.8 Alfinon, \$259; with 50mm, f/1.8 Alitar or 50mm, f/1.9 Xenon, \$357

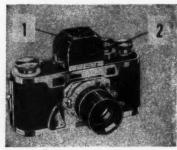
Last Reported Used Selling Price Range in 1956: With f/2.8 Alfinon, \$106-\$122

Special Identification Points: 1. Collapsible focusing hood instead of fixed focusing assembly as in Prisma Reflex and Alpa 4, 5, and 7; 2. "Alpa Reflex" engraved on front of focusing hood.

ALPA PRISMA REFLEX

Introduced: 1950 Discontinued: 1952 Flash Sync: Same as Alpa Reflex. Special Features: Built-in roof prism

providing unreversed ground glass image. Other features same as Alpa Reflex.



Last List Price: With 50mm, f/2.8 Alfinon, \$329; with 50mm, f/1.8 Alitar or 50mm, f/1.9 Xenon, \$427

Last Reported Used Selling Price Range in 1956: With f/2.8 Alfinon, \$185-\$200

Special Identification Points: 1. Builtin roof prism; 2. "Alpa Prisma Reflex" engraved on front of roof prism.

ALPA MODEL 4

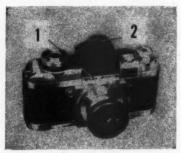
Introduced: 1952 (Currently in production)

Flash Sync: Factory installed. For FP type bulbs at all speeds; X sync up to 1/50 sec.

Special Features: Single-lens reflex focusing; single knob winds shutter and advances film in half turn; double exposure prevention; reflex mirror returns to viewing position immediately after exposure; accessory clip; removable back.

Last List Price: With 50mm, f/8.5 Alpa Alorar, \$199; with 50mm, f/2.8 Alpa Alfinon preset, \$249; with 40mm, f/8.5 Alpa Makro-Kilar, \$259; with 50mm, f/1.9 Xenon automatic diaphragm, \$329; with 50mm, f/1.8 Kern Switar Apochromat automatic diaphragm, \$359

Last Reported Used Selling Price Range in 1956: With f/2.8 Alfinon, \$142.\$163



Special Identification Points: 1. "Mod. 4" engraved on housing above lens; 2. Differentiated from Alpa 5 and 7 by having reversed ground glass image; 3. No rangefinder.

ALPA MODEL 5

Introduced: 1952 (Currently in production)

Flash Sync: Same as Alpa 4

Special Features: Built-in prism providing unreversed ground glass image; 45-degree viewing angle. Other features same as Alpa 4.

Last List Price: With 50mm, f/3.5 Alpa Alorar, \$279; with 50mm, f/2.8 Alpa Alfinon preset, \$319; with 40mm, f/3.5 Alpa Makro-Kilar, \$329; with 50mm, f/1.9 Xenon automatic diaphragm, \$399; with 50mm, f/1.8 Kern Switar Apochromat automatic diaphragm, \$429

Last Reported Used Selling Price Range in 1956: With f/1.9 Xenon

(auto.), \$240-\$260

Special Identification Points: 1. "Mod. 5" engraved on housing, above lens; 2. Differentiated from Alpa 4 by having built-in prism; 3. Differentiated from Alpa 7 by not having self-timer or rangefinder.

ALPA MODEL 7

Introduced: 1952 (Currently in production)

Flash Sync: Same as Alpa 4

Special Features: Coincidence type rangefinder which couples to the 50mm lenses; multi-focal viewfinder for 50, 90, and 135mm lenses; builtin self-timer.

Last List Price: With 50mm, f/3.5



Alpa Alorar, \$319; with 50mm, f/2.8 Alpa Alfinon preset, \$359; with 40mm, f/3.5 Alpa Makro-Kilar, \$369; with 50mm, f/1.9 Xenon automatic diaphragm, \$439; with 50mm, f/1.8 Kern Switar Apochromat automatic diaphragm, \$469

Last Reported Used Selling Price Range in 1956: With f/1.8 Switar,

\$275-\$290

Special Identification Points: 1. "Mod. 7" engraved on housing, above lens; 2. Self-timer; 3. Coupled rangefinder.

ANSCO

Manufacturer: Ansco, 40 Charles St., Binghamton, N. Y.

Film Size: All models take up to 36 double frame (1 x 11/2 in.) pictures using standard cartridge films.

ANSCO KAROMAT f/2 Introduced: 1951 Discontinued: 1955 Lens: Factory coated 50mm, f/2. Until 1952, came with either Rodenstock Heligon or Schneider Xenon; thereafter, came only with Xenon.



Shutter: Synchro-Compur, 1 to 1/500 sec. Until 1952, shutter had both B & T; thereafter, came with B setting only.

Flash Sync: Factory installed, M & X. Special Features: Coupled split-image type rangefinder; combined window for view and rangefinder; rapid film advance lever automatically cocks shutter; double exposure prevention; built-in depth of field scale in last version only (first version had

none; second version had calculator instead of scale); film-type indicator dial (in second and last versions only); zone focusing setting; body shutter release; built-in accessory

shoe. Last List Price: \$125

Last Reported Used Selling Price Range in 1956: With f/2 Xenon, \$69-\$80

Special Identification Points: 1. Heligon or Xenon f/2 lens; 2. First version had hinged film advance lever; second and last versions had round lever; 3. Built-in depth of field scale in last version only; 4. Until 1952, had bar in front for Time shutter setting; thereafter, came without Time setting.

ANSCO KAROMAT f/2.8

Introduced: 1953 (Currently in production)

Lens: Factory coated 50mm, f/2.8 Schneider Xenar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B.

Flash Sync: Same as Karomat f/2. Special Features: Same as last version

of Karomat f/2.

Last List Price: \$112.50 Last Reported Used Selling Price in Range in 1956: \$48-\$63

Special Identification Points: 1. Xenar f/2.8 lens.

ANSCO REGENT

Introduced: 1953 (Currently in production)

Lens: Factory coated 50mm, f/3.5. Early version has Agfa Apotar; current version has Agfa Solinar.

Shutter: Early version has Prontor SV. 1 to 1/300 sec., plus B and selftimer; current version has Prontor SVS, with same speeds.

Flash Sync: Factory installed, M & X. Special Features: Double exposure prevention; built-in depth of field scale; zone focusing setting: film type indicator; accessory clip; body shutter release.

Last List Price: \$54.50

Last Reported Used Selling Price Range in 1956: \$31-\$39

Special Identification Points: 1. Early version comes with Apotar lens;



current version comes with Solinar; 2. Prontor shutter with speeds up to only 1/300 sec.; 3. No rangefinder.

ANSCO SUPER REGENT

Introduced: 1954 Discontinued: 1955 Lens: Factory coated 50mm, f/3.5 Agfa Solinar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Coupled coincidence type rangefinder with combined range- and viewfinder eyepiece. Other features same as Regent.

HOW THE CAMERAS WERE PICKED

NO ONE SHOULD GET THE IDEA that this selection of new and used cameras includes everything which is now on the market or has ever been sold. We have included most of the famous and widely used makes of current cameras. Also listed are many of those out-of-production cameras which are prominent in the used camera market. All the cameras listed are in the "quality" classthat is, they have lenses of good performance, versatile shutters, and other features which make it possible to take pictures under a wide range of conditions. Very low priced cameras have been excluded. This year, for the first time, there is a movie camera section, which follows the listings of still cameras.

Some well known makes have not been listed. This is due to inability to get essential information from manufacturers in time for this issue. In the case of some foreign firms, records and illustrations were destroyed or lost during World War II.

Although the data, list prices, and used price ranges given are as accurate and up to date as careful checking and research could make them, MODERN PHOTOGRAPHY assumes no responsibility for their accuracy.

Last List Price: \$87.50

Last Reported Used Selling Price Range in 1956: \$48-\$56

Special Identification Points: 1. Coupled rangefinder; 2. Differentiated from later Super Regent LVS by not having Light Value Scale.

ANSCO SUPER REGENT LVS



Note: This camera is the same as the earlier Super Regent, but has a shutter incorporating a Light Value Scale cross-coupled to the lens diaphragm, and click stops on the diaphragm and shutter speed rings. Introduced: 1955 (Currently in production)

Last List Price: \$89.50

Last Reported Used Selling Price Range in 1956: \$34-\$41

Special Identification Points: 1. Light Value Scale.

ARGUS

Manufacturer: Argus Cameras, Inc., 405 Fourth St., Ann Arbor. Mich. Film Size: All models take up to 36 double frame (1 x 11/2 in.) pictures on standard cartridge films.

ARGUS MODEL C

Introduced: 1938 Discontinued: 1939 Lens: 50mm, f/3.5 anastigmat.

Shutter: Behind-the-lens, 1/5 to 1/300 sec., plus B.

Flash Sync: None. Add type 1 (X sync). See page 69.

Special Features: Built-in rangefinder (not coupled to focusing mount); body shutter release.

Last List Price: \$25

Last Reported Used Selling Price Range in 1956: \$11-\$18

Serial Numbers: 1,000 to 19,077

Special Identification Points: 1. Only C series Argus with uncoupled rangefinder; 2. Box-shape, with squared-off edges.

ARGUS MODEL C2

Introduced: 1938 Discontinued: 1942 Lens: 50mm, f/3.5 anastigmat. Shutter: Behind-the-lens, 1/5 to 1/300

sec., plus B.

Flash Sync: None. Add type 1 (X sync). See page 69.

Special Features: Coupled rangefinder; other features same as Model C.

Last List Price: \$39.75

Last Reported Used Selling Price Range in 1956: \$16.50-\$22

Serial Numbers: 19,078 to 91,945 Special Identification Points: Coupled rangefinder; 2. Box-shape, with squared-off edges.

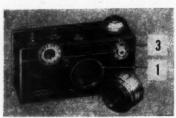
ARGUS MODEL C3

Introducted: 1939 (Currently in production)

Lens: 50mm, f/3.5 Cintar. Note: Model C3 cameras made after July, 1946 come with coated Cintar lenses. Shutter: Behind-the-lens, 1/10 to

1/300 sec., plus B.

Flash Sync: Factory installed. Most have F at all speeds, M up to 1/30. After Jan., 1954 (serial numbers above 964,482) changed to F up to 1/100, M to 1/25, X at all speeds.



Special Features: Coupled rangefinder; threaded lens mount for interchanging lenses; body shutter release; color-coded exposure and distance settings (in latest model only).

Last List Price: with case and flash, \$69.50

Last Reported Used Selling Price Range in 1956: With case and flash, \$31-\$38

Serial Numbers: (prewar) 0310001 to 03690326; (current) 10,699 to above

Special Identification Points: 1. First C model with interchangeable lens mount; 2. Factory installed sync; 3. Box-shape, with squared-off edges. 4. Current model has accessory clip on top of camera.

ARGUS MODEL 21



Introduced: 1947 Discontinued: 1952 Lens: Factory coated 50mm, f/3.5 Cintar.

Shutter: Behind-the-lens, 1/10 to 1/200 sec., plus B.

Flash Sync: Factory installed, selector for M and F at all speeds.

Special Features: Double exposure prevention; gun-sight type viewfinder; full focusing mount; body shutterrelease; accessory shoe; removable lens, for use on enlarger.

Last List Price: \$59.50

Last Reported Used Selling Price Range in 1956: \$22-\$29

Serial Numbers: 9,218 to 64,785

Special Identification Points: 1. No built-in rangefinder; 2. Removable f/3.5, instead of permanently mounted f/2.8 lens as in C4.

ARGUS MODEL C4

Introduced: 1951 (Currently in production)

Lens: Coated 50mm, f/2.8 Cintar. Shutter: Behind-the-lens, 1/10 to

1/300 sec., plus B. Flash Sync: Factory installed. Early models same as Model 21. After June, 1954 (serial numbers above 321,000) changed to F up to 1/100, M and X at all speeds.

Special Features: Coupled rangefinder; all metal body; double exposure prevention; body shutter release; single eyepiece for viewfinder and rangefinder; color-coded exposure and distance settings (in latest model only).

Note: The Model C4 can be adapted for interchanging lenses; accessory lenses are available.



Last List Price: \$84.50

Last Reported Used Selling Price Range in 1956: \$46-\$54

Serial Numbers: 230,000 to above 500,000

Special Identification Points: 1. Builtin rangefinder; 2. f/2.8 lens (in standard model).

ARGUS MODEL C44

Introduced: 1956 (Currently in production)

Lens: Factory coated 50mm, f/2.8 Cin-

Shutter: Behind-the-lens, 1/10 to 1/300 sec., plus B.

Flash Sync: Same as late models of C4. Special Features: Bayonet type lens mount for interchanging lenses (Cintagon 100mm, f/3.5 long-focus, and 35mm, f/4.5 wide-angle accessory lenses available). Other features same as Model C4.

Last List Price: \$99.50

Last Reported Used Selling Price Range in 1956: Not available.

Serial Numbers: 0044000001 to 0044006000



Special Identification Points: 1. "Argus C-Forty Four" engraved on front of rangefinder dial; 2. Differentiated from Argus C4 by having bayonet type lens mount instead of thread type.

ARGUS MODEL A-Four

Introduced: 1953 (Currently in production)

Lens: Coated 44mm, f/3.5 Cintar. Shutter: 1/25 to 1/200 sec., plus B. Flash Sync: Factory installed. M up to 1/25, F to 1/100, X at all speeds.

Special Features: Double exposure prevention; blank exposure prevention; full focusing mount; builtin depth of field scale; color-coded



exposure and distance settings (in latest model only).

Last List Price: \$32.50

Last Reported Used Selling Price Range in 1956: \$16-\$22

Serial Numbers: None. Bears stamped date of manufacture.

Special Identification Points: 1. "Argus a-four" marked on front of camera body.

BOLSEY

Manufacturer: Formerly made by Bolsey Corp. of America, 118 E. 25th St., New York 10, N. Y. Starting 1956, made by Obex Corp. of America, 241 Broadway, Lynbrook, L. I., N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard cartridge films.

BOLSEY MODEL B

Introduced: 1947 Discontinued: 1955 Lens: Factory coated 44mm, f/3.2 Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: None. Special flashgun had external sync device.

Special Features: Coupled rangefinder; focusing down to 2 ft.

Last List Price: \$58.50

Last Reported Used Selling Price Range in 1956: \$18-\$26



Special Identification Points: 1.
"Model B" marked on top of camera; 2. No double exposure prevention.

BOLSEY MODEL B SPECIAL

Introduced: 1950 Discontinued: 1954 Lens: Factory coated 44mm, f/3.2.

Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Same as Model B.

Special Features: Removable lensshutter assembly for insertion of extension rings for close-ups. Other features same as Model B.

Last List Price: \$71.25

Last Reported Used Selling Price Range in 1956: \$38-\$44



Special Identification Points: 1.

"Model B Special" marked on front of camera, between view- and range-finder windows; 2. Only Bolsey model with removable lens-shutter assembly.

BOLSEY MODEL B2

Introduced: 1949 Discontinued: 1956 Lens: Factory coated 44mm, f/3.2. Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Factory installed. M up to 1/50.



Special Features: Double exposure prevention. Other features same as Model B.

Last List Price: \$58.50

Last Reported Used Selling Price Range in 1956: \$24-\$37

Special Identification Points: 1.

"Model B2" marked on front of camera, between view- and range-finder windows; 2. Permanent, instead of removable, lens-shutter assembly.

BOLSEY MODEL B22



Introduced: 1953 Discontinued: 1955 Lens: Factory coated 44mm, f/3.2. Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Same as Model B2.

Special Features: Automatic diaphragm computer for flash; provision for deliberate double exposures. Other features same as Model B2.

Last List Price: \$69.50

Last Reported Used Selling Price Range in 1956: \$35-\$49

Special Identification Points: 1.
"Model B22 Set-O-Matic" marked
on front of camera between viewand rangefinder windows; 2. Automatic diaphragm computer for flash.

BOLSEY JUBILEE

Introduced: 1955 (Currently in production)

Lens: Factory coated 45mm, f/2.8 Bolsey-Steinheil.

Shutter: Gauthier, 1/10 to 1/200 sec., plus B.

Flash Sync: Factory installed. M and

X, at all speeds.

Special Features: Coupled, split-image rangefinder; Set-O-Matic automatic diaphragm computer for flash and daylight; double exposure prevention; body shutter release; quick-focusing knob. Last List Price: \$69.50 Last Reported Used Selling Price Range in 1956: \$33-\$40



Special Indentification Points: 1.
Body shutter release.

BOLSEY MODEL B3

Note: This camera is the same as the Bolsey Jubilee, but does not have the "Set-O-Matic" automatic diaphragm flash computer.

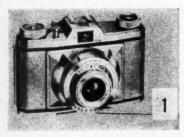
Introduced: 1956 (Currently in production)

Last List Price: With ever-ready case, \$59.95

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. "Bolsey B3" engraved on top of camera; 2. No automatic diaphragm flash computer.

BOLSEY EXPLORER



Introduced: 1954 (Currently in production). This camera is made in Germany.

Lens: Factory coated 45mm, f/2.8 Steinheil Cassar.

Shutter: Gauthier, 1/25 to 1/200 sec., plus B.

Flash Sync: Factory installed. M up to 1/50, X at all speeds.

Special Features: Double exposure prevention; rapid-wind lever which transports film, operates exposure counter, and cocks shutter in one motion; body shutter release; optical viewfinder; built-in depth of field scale.

Last List Price: \$47.95 (including case and flashgun).

Last Reported Used Selling Price Range in 1956: \$26-\$34

Special Identification Points: 1.
"Bolsey Explorer" marked on lens mount.

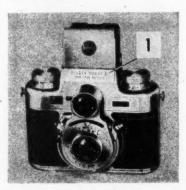
BOLSEY MODEL C

Introduced: 1950 Discontinued: 1955 Lens: Factory coated 44mm, f/3.2. Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Same as Model B2.

Special Features: Twin-lens reflex focusing plus coupled rangefinder; parallax correction indicator on ground glass finder; built-in magnifier; built-in depth of field scale; film speed indicator built into rewind knob. Other features same as Model B2.

Last List Price: \$89.50



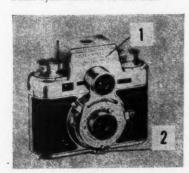
Last Reported Used Selling Price Range in 1956: \$33-\$55

Special Identification Points: 1.
"Model C Twin Lens Reflex"
marked on front of reflex housing.

BOLSEY MODEL C22

Introduced: 1953 (Currently in production)

Lens: Factory coated 44mm, f/3.2. Shutter: Bolsey-Wollensak, 1/10 to 1/200 sec., plus B & T. Flash Sync: Same as Model B22.



Special Features: Automatic diaphragm computer for flash. Other features same as Model C, but has no depth of field scale.

Last List Price: \$99.50

Last Reported Used Selling Price Range in 1956: \$56-\$65

Special Identification Points: 1.

"Model C22 Set-O-Matic Twin Lens Reflex" marked on front of reflex housing; 2. Set-O-Matic automatic diaphragm computer for flash.

CANON

Manufacturer: Canon Camera Co., Inc., Tokyo, Japan

Importer: Canon Camera Co., Inc., 550 Fifth Ave., New York 36, N. Y. The listing below covers only those models brought in by the importers. Earlier models brought in through other channels may still be in circulation.

Film size: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridge films. They also accept special Canon cassettes for loading bulk film.

Lens: All models described below incorporate threaded lens mount (similar to Leica mount) for interchangeability of lenses. Standard lenses on older models were factory coated 50mm, f/3.5, f/2, or f/1.9 Serenar. Standard lenses on current models are factory coated 50mm, f/3.5, f/1.8, f/1.5 or f/1.2 Canon. Accessory lenses are available in focal lengths from 28 to 800mm.

Flash Sync: Either Type 1 (X sync), or Type 2 (with FP bulbs) can be added to any non-sync Canon. See page 69 for details.

Shutter: All models have cloth focal plane shutter.

CANON MODEL II-B



Introduced: 1948 Discontinued: 1950 Shutter Speeds: 1 to 1/500 sec., plus B. Flash Sync: None. See note above. Special Features: Coupled coincidence type rangefinder; single eyepicce

type rangefinder; single eyepiece for range-viewfinder, with three de grees of magnification; film tran port coupled to shutter winding automatic exposure counter; body shutter release; accessory shoe; builtin depth of field scale.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: With f/1.9 Serenar, \$106-\$134

Special Identification Points: 1. Top shutter speed of only 1/500 sec.

CANON MODEL III

This model is the same as Model II-B, but has top shutter speed of 1/1000 sec., plus B and T.

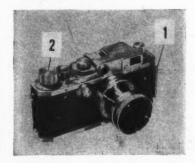
Introduced: 1950 Discontinued: 1952 Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Top shutter speed of 1/1000 sec., instead of only 1/500, as in Model II-B; 2. No factory installed sync.

CANON MODEL IV

This model is the same as Model III, except for flash sync.



Introduced: 1950 Discontinued: 1952
Flash Sync: Factory installed, for FP
bulbs at 1/100 and faster. Also for
Class M bulbs with special Canon
flashgun and timing unit.

Last List Price: Not available

Last Reported Used Selling Price Range in 1956: With f/1.8 Serenar, \$125-\$150

Special Identification Points: 1. Rail on side of camera for attaching flash unit; 2. Film winding knob lacks film-type indicator.

CANON MODEL III-A

This model is similar to Model IV, except for flash sync. A film-speed indicator is built into the film-winding knob. Standard lens is 50mm,



Does it pay to buy a non-sync camera and add sync to it?

THE ANSWER TO THAT QUESTION is a definite "Yes," but with a number of important "ifs" which must be satisfied first. These are: if the camera is selling for more than \$50 and is in all other ways excellent for your purposes; if your flash needs are relatively modest; if you can't pick up an equally good camera with factory installed sync for the price of the old camera plus the cost of installing sync; if you or your camera dealer have a reliable repairman capable of doing a good installation.

If your flash needs are complex and demanding, if you must have the versatility of M and X sync at all speeds, then better save your money until you can get a camera with such a flash system factory installed.

Below is a list of various types of sync, plus recommendations and costs. Internal installations described are of the simplest type, using a single switch. If you want a safety switch to prevent accidental flashing (focal plane shutters only), add about 50 percent to the cost.

Type 1: Internal contact points with zero delay. That is, the electrical circuit is completed at the instant the shutter blades or curtains are wide open. Commonly called "X" sync, this is the easiest type to install in a non-sync shutter. It is most useful in a leaf-type shutter. You can use electronic flash at any speed; at slow shutter speeds (up to about 1/30 sec.) any type of flashbulb may be used. It can be added successfully to all models of the Compur shutter, to most Prontors, and to the better grade Japanese makes. Approximate cost range is \$15 to \$25.

For focal-plane shutters, X sync is desirable if you plan to use electronic flash mainly. If your main concern is with flashbulbs, Types 2 or 4 (below) may be more useful. X sync can be added successfully to practically any 35mm or roll film camera with focal-plane shutter. Approximate cost range is \$18 to \$40.

Type 2: Internal contact points with 20-millisecond delay. That is, the circuit is completed .017 to .020 seconds before the shutter blades or curtains are wide open. This type of sync is designed for use only with Class M bulbs and leaf-type shutters, and Class FP bulbs and focal plane shutters. Unless you have definite reason for sticking exclusively to flashbulbs, it is inadvisable to install this type of sync in a leaf shutter (except in conjunction with X sync). It is, however, quite usable with 35mm focal plane shutters. Approximate cost range is \$18 to \$40.

Type 3: Internal contact points with 3-millisecond delay. That is, the circuit is completed about .003 seconds before the shutter blades or curtains are wide open. This is for use only with Class F (SM or SF) flashbulbs. It is inadvisable to install such sync, as the Class F bulbs may be used satisfactorily with X sync (Type 1, above).

Type 4: External contact points, operated by movement of a shutter speed setting ring, or similar part of the camera mechanism. These are useful mainly for synchronizing focal-plane shutters. Some types let you use high shutter speeds with FP bulbs; other provide a version of "open flash" for speed light or flashbulbs. Wide range of prices.

Type 5: External solenoid to actuate shutter. These work only with set-and-release shutters, preferably of the leaf type, and are for use only with flashbulbs, generally Class M. This type of sync is virtually obsolete today, and it is inadvisable to install it on a camera (except for some press types) unless there is compelling reason to do so.

Type 6: Mechanical devices which screw into the cable release socket. These are of three kinds: (1) So-called "passive" synchronizers actuated by the shutter, after it is tripped. These are inexpensive and may be useful with an old self-cocking shutter for an occasional flash. (2) Cable release incorporating a mechanical time delay. (3) Cable release actuated by solenoid. All three systems are of relatively limited utility.

f/3.5 Serenar, or 50mm, f/1.8 Serenar (in rigid mount, with click stops).

Introduced: 1952 Discontinued: 1953 Flash Sync: None. See note, beginning of Canon section.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Filmspeed indicator; 2. No factory installed sync connection.

CANON MODEL IV-S

This model is the same as Model IV, but has a film-speed indicator built into the film-winding knob. Stand-



ard lens is 50mm, f/3.5 Serenar, or 50mm, f/1.8 Serenar (in rigid mount, with click stops).

Note: This camera was introduced briefly in the United States in 1952. Manufacture of the IV-S in Japan was discontinued in 1951.

Flash Sync: Factory installed. Same as Model IV. Does not have X sync, as in later Model IV-S2.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: With f/1.8 Serenar, \$126-\$148

Special Identification Points: 1. Differentiated from Canon IV by having built-in film-type indicator; 2. No lock on slow speed dial.

CANON MODEL IV-S2



This model is the same as Model IV-S, except for flash sync and lock for the slow speed dial.

Introduced: 1952 (Currently in production)Flash Sync: Factory installed. For FP

type bulbs at 1/100 and faster. Also M bulbs with special Canon flashgun and timing unit. X sync at slow speeds.

Last List Price: With 50mm, f/1.8 Canon, \$284; with 50mm, f/1.5 Canon, \$327

Last Reported Used Selling Price Range in 1956: With f/1.8 Canon, \$129-\$163

Special Identification Points: 1. Lock on slow speed dial.

CANON MODEL II-D

This model is similar to Model III-A, but has top shutter speed of only 1/500 sec., instead of 1/1000. Introduced: 1952 (Currently in pro-

Introduced: 1952 (Currently in production)

Flash Sync: None. See note, beginning of Canon section.

Last List Price: With 50mm, f/3.5 Canon, \$166; with 50mm, f/1.8 Canon, \$230; with 50mm f/1.5 Canon, \$277

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Top shutter speed of only 1/500 sec.; 2 Built-in film-speed indicator.

CANON MODEL II-F

This model is similar to Model IV-S2, except for flash sync and top shutter speed of only 1/500, instead of 1/1000.

Introduced: 1952 Discontinued: 1955 Flash Sync: Factory installed. For FP bulbs at 1/100 and faster shutter speeds. No X sync.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Top shutter speed of only 1/500 sec., instead of 1/1000, as in Model IV-S2.

CANON MODEL II-S

This model is the same as Model IV-S2 in both quality and function except the model II-S has shutter speeds up to 1/500 sec.

Introduced: 1954 (Currently in production)

Flash Sync: Factory installed. Same as Model IV-S2.

Last List Price: With 50mm, f/1.8 Canon, \$264

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Top shutter speed of only 1/500 sec., instead of 1/1000 as in Model IV-S2; 2. Factory installed sync for high and slow speeds; 3. Additional X-type sync; 4. Film-speed indicator.

CANON MODEL V



Introduced: 1956 (Currently in production)

Shutter Speeds: 1 to 1/1000 sec., plus B and T, and self-timer.

Flash Sync: Factory installed. For FP type bulbs at all speeds; M type bulbs, 1/125 to 1 sec.; F type bulbs, 1/30 to 1 sec.; X sync up to 1/50 sec.

Special Features: Coupled coincidence type rangefinder with single eyepiece for range-viewfinder; viewfinder adjustments for 35mm and 50mm lenses, as well as critical magnification; accessory shoe, synchronized with rangefinder, provides automatic parallax correction for all accessory viewfinders; fixed take-up spool; hinged back; rapid film-advance trigger, as well as manual film winding knob with built-in film type indicator; double exposure prevention; shutter release guard also acts as setting for intentional double exposures and film advance-rewind.

Last List Price: With 35mm, f/1.8 Canon, \$350; with 50mm, f/1.8 Canon, \$325; with 50mm, f/1.2 Canon, \$450

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Rapid film advance trigger; 2. Self-timer;3. Hinged back.

CONTAFLEX

Manufacturer: Zeiss Ikon A. G., Stuttgart, Germany

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridge films. They also accept Contax cassettes.

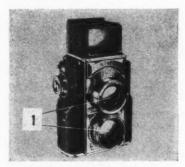
CONTAFLEX TWIN-LENS REFLEX

Introduced: 1935 Discontinued: 1940 Lens: Interchangeable, by means of bayonet lens mount. Standard lenses were 50mm, f/2 or f/1.5 Sonnar, or 50mm, f/2.8 Tessar. Focal lengths from 35 to 135mm were available. Viewing lens was 80mm, f/2.8.

Shutter: Metal focal plane, ½ to 1/1000 sec., plus B and self-timer. Flash Sync: None. Add type 1 (X sync)

Flash Sync: None. Add type 1 (X sync) or 2 (with FP bulbs). See page 69.

Special Features: Built-in photo-electric exposure meter; built-in magnifier for ground glass image; Albada sports finder: coupled film transport and shutter cocking; built-in depth of field scale; automatic exposure counter.



Last List Price: With f/2 Sonnar, \$309; with f/1.5 Sonnar, \$399; with f/2.8 Tessar, \$267

Last Reported Used Selling Price Range in 1956: With f/2 Sonnar, \$90-\$116

Special Identification Points: 1. Only Zeiss 35mm twin-lens reflex camera.

CONTAFLEX I

The post-war Contaflex is of entirely different design from the pre-war camera of the same name. The current camera is an eye-level focusing single-lens reflex.

Introduced: 1953 (Currently in production)



Lens: Factory coated 45mm, f/2.8 Tessar incorporating automatic pre-set diaphragm.

Shuter: Until June, 1954, came with Synchro-Compur, with speeds of 1, 1/2, 1/5, 1/10, 1/25, 1/50, 1/100, 1/250, 1/500 sec., plus B; latest version comes with Synchro-Compur MXV, with speeds of 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Eye-level roof-prism reflex focusing in combination with split-image rangefinder; film transport coupled to shutter winding, pre-set diaphragm, exposure counter, reflex mirror and film-protecting light trap; built-in depth of field scale; film-type indicator; setting for optional fixed focus use; body shutter release; removable back.

Last List Price: \$149

Last Reported Used Selling Price Range in 1956: \$90-\$119

Special Identification Points: 1. No built-in exposure meter.

CONTAFLEX II

This camera is the same as the current Contaflex I, but has a built-in photoelectric exposure meter.

Introduced: December, 1954 (Currently in production)

Flash Sync: Same as Contaflex I. Last List Price: \$179

Last Reported Used Selling Price Range in 1956: \$116-\$140



Special Identification Points: 1. Builtin exposure meter.

CONTAX

Manufacturer: Zeiss Ikon A. G., Stuttgart, Germany

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard cartridge films. They also accept bulk load cassettes and daylight loading spools.

Lens: All models incorporate bayonet lens mounts for interchangeability of lenses. Standard lens is 50mm, f/3.5 Tessar or 50mm, f/2 or f/1.5 Sonnar. Focal lengths from 28 to 500mm are available.

Shutter: All models have metal focal plane shuter.

Flash Sync: Either Type 1 (X sync) or Type 2 (with FP bulbs) can be added to any non-sync Contax. See page 69 for details.

CONTAX MODEL I Introduced: 1932 Discontinued: 1936



Shutter Speeds: 1/25 to 1/1000 sec., plus B. Note: Version introduced in 1934 had speeds down to ½ sec.

Flash Sync: None. See note above.

Special Features: Coupled long-base rangefinder; interchangeable lenses; built-in knurled wheel for focusing 50mm lenses from top of camera; detachable back; accepts plate back and full range of accessories; coupled film transport and shutter cocking (double and blank exposure prevention).

Last List Price: With 50mm, f/3.5 Tessar, \$135; with 50mm, f/2 Son-

Last Reported Used Selling Price-Range in 1956: With f/2 Sonnar, \$60-\$84

Special Identification Points: 1. Made only in black enamel finish, with nickel trim; 2. Only Contax model with shutter setting—film winding knob located on front of camera; 3. Only Contax model with separate eyepieces for view- and rangefinder; 4. Fastest shutter speed is 1/1000.

CONTAX MODEL II

Introduced: 1936 Discontinued: 1940 Shutter Speeds: ½ to 1/1250 sec., plus B and self-timer.

Flash Sync: None. See note beginning of Contax section.

Special Features: Combined eyepiece



for view- and rangefinder; other features same as Model I.

Last List Price: With 50mm, f/3.5 Tessar, \$168; with f/2 Sonnar, \$210 Last Reported Used Selling Price

Range in 1956: With f/2 Sonnar, \$84-\$118

Special Identification Points: 1. Made only in chrome finish; 2. Combined eyepiece for view- and rangefinder;
S. Slow shutter speeds down to only ½ sec. instead of 1 sec. as in later Model IIa.

CONTAX MODEL IIa

Introduced: 1950 (Currently in production)

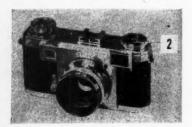
Shutter Speeds: 1 to 1/1250 sec., plus B and self-timer.

Flash Sync: Factory installed. Early models had threaded sync mount, required special adapter for M up to 1/25, different adapter for X up to 1/50. Current models have standard sync connector, use FP bulbs for 1/100 to 1/1250, X at 1/50, M up to 1/25.

Special Features: Film speed reminder dial combined with rewind knob. Other features same as Model II.

Note: 1954 version has MX sync.

Last List Price: With factory coated 50mm, f/3.5 Tessar, \$247; with 50mm, f/2 Sonnar, \$298



Last Reported Used Selling Price Range in 1956: With f/2 Sonnar, \$149.50-\$199

Special Identification Points: 1. Note differences in flash sync described above; 2. Film speed reminder dial; 3. Early models had all black shutter speed markings. Later ones have black up to 1/25, yellow 1/50, red 1/100 to 1/1250.

CONTAX MODEL III



Introduced: 1936 Discontinued: 1940 Shutter Speeds: ½ to 1/1250 sec., plus B and self-timer.

Flash Sync: None. See note, beginning of Contax section.

Special Features: Built-in photoelectric exposure meter calibrated in DIN or American Scheiner scales. Other features same as Model II.

Last List Price: With 50mm, f/3.5 Tessar, \$213; with f/2 Sonnar, \$255

Last Reported Used Selling Price Range in 1956: With f/2 Sonnar, \$94-\$124

Special Identification Points: 1. Builtin exposure meter calibrated in DIN or American Scheiner scales.

CONTAX MODEL IIIa

Introduced: 1951 (Currently in production)

Shutter Speeds: 1 to 1/1250 sec., plus B and self-timer.



Flash Sync: Same as Contax IIa.

Special Features: Built-in photoelectric exposure meter calibrated in ASA exposure indexes. Other features same as Model II.

Last List Price: With factory coated 50mm, f/3.5 Tessar, \$277; with 50mm, f/2 Sonnar, \$328

Last Reported Used Selling Price Range in 1956: With f/2 Sonnar, \$178-\$236

Special Identification Points: 1. Builtin exposure meter has ASA calibrations; 2. Factory installed sync; 3. Add'l slow shutter speed of 1 sec.

CONTESSA

Manufacturer: Zeiss Ikon A. G., Stuttgart, Germany

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

Film Size: Takes up to 36 double frame (1 x 1½ in.) pictures using standard cartridge films.

CONTESSA 35

Introduced: 1950 Discontinued: 1955 Lens: Factory coated 45mm, f/2.8 Tessar.

Shutter: Early version had Compur-Rapid, 1 to 1/500 sec., plus B; version introduced in 1953 had Synchro-Compur, with same speeds.

Flash Sync: Factory installed. Earliest version had only X sync; later ones have M and X.

Special Features: Coupled coincidence type rangefinder; single eyepiece for range-viewfinder; built-in photoelectric exposure meter; film-type indicator; double and blank exposure prevention; built-in depth of field scale; automatic exposure counter; accessory shoe; setting for optional fixed focus use.



Last List Price: With Synchro-Compur shutter, \$142

Last Reported Used Selling Price Range in 1956: \$62-\$90

Special Identification Points: 1. Combined range-viewfinder; 2. Range-finder coupled to lens.

CONTINA AND IKONTA 35

Manufacturer: Zeiss Ikon A. G., Stuttgart, Germany

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard cartridge films.

IKONTA 35

Introduced: 1948 Discontinued: 1952
Lens: From 1948 to 1950, came only with 45mm, f/3.5 Novar lens; from 1950 to 1952, came with 45mm, f/3.5 Novar, 45mm, f/2.8 Schneider Xenar, or 45mm, f/2.8 Tessar. Latest versions had factory coated lenses.

Shutter: From 1948 to 1950, came only with Klio, 1 to 1/250 sec., plus B and self-timer; from 1950 to 1952, came with Prontor S (with Novar lens), 1 to 1/300 sec., plus B and self-timer; or Compur-Rapid (with Xenar or Tessar lens), 1 to 1/500 sec., plus B.

Flash Sync: None in earliest version. Later had X sync, factory installed.

Special Features: Double and blank exposure prevention; optical-type viewfinder; setting for optional fixed focus use; built-in depth of field scale; automatic exposure counter; film-type indicator; accessory shoe (in all models except 1948-1950 version).

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: \$33-\$43 Special Identification Points: 1. From 1948 to 1950, came only with Klio shutter; 2. Prontor S or Compur-Rapid shutter, instead of Prontor SV, SVS, or Synchro-Compur, as in later Contina models.

CONTINA I

This model is the same as Ikonta 35, but came with factory coated 45mm, f/3.5 Novar in Prontor SV or SVS shutter, 1 to 1/300 sec., plus B and self-timer, or 45mm, f/2.8 Tessar in Synchro-Compur, 1 to 1/500, B.



Introduced: 1952 Discontinued: 1955 Flash Sync: Factory installed, M & X. Special Features: Same as Ikonta 35. Last List Price: With Tessar lens, \$60 Last Reported Used Selling Price Range in 1956: \$32.\$40

Special Identification Points: 1. Prontor SV, SVS, or Synchro-Compur shutter, instead of Prontor S or Compur-Rapid, as in Ikonta 35.

CONTINA II

This model is basically the same as Contina I, but has a built-in coincidence-type rangefinder which is not coupled to the lens. It comes with the same lens-shutter combinations as Contina I.

Introduced: 1952 Discontinued: 1955 Last List Price: With Novar lens in



Prontor SVS shutter, \$49; with Tessar lens in Synchro-Compur, \$63

Last Reported Used Selling Price Range in 1956: \$38-\$43

Special Identification Points: 1. Builtin, uncoupled rangefinder.

CONTINA la



Introduced: 1955 (Currently in production)

Lens: Factory coated 45mm, f/3.5 Novar.

Shutter: Prontor SVS, 1 to 1/300 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Rapid film advance lever; body shutter release; coupled film transport and shutter cocking; optical-type viewfinder; setting for optional fixed focus use; built-in depth of field scale; automatic exposure counter; film-type indicator; accessory shoe.

Last List Price: \$49

Last Reported Used Selling Price Range in 1956: \$29-\$36

Special Identification Points: 1. Rigid lens assembly, instead of bellows, as in Ikonta 35 and Contina I; 2. No built-in exposure meter, as in Contina IIa.

CONTINA IIa



This model is the same as Contina Ia, but has a built-in photoelectric exposure meter and comes with either factory coated 45mm, f/3.5 Novar, or 45mm, f/2.8 Novicar lens, in Prontor SVS shutter, 1 to 1/300 sec., plus B and self-timer.

Introduced: 1955 (Currently in production)

Last List Price: With Novar lens, \$75; with Novicar, \$86

Last Reported Used Selling Price Range in 1956: With f/2.8 Novicar, \$46-\$55

Special Identification Points: 1. Builtin exposure meter.

EXAKTA

Manufacturer: Ihagee Kamerawerk A. G., Dresden, Germany

Importer: Exakta Camera Co., 705 Bronx River Road, Bronxville 8, N. V.

Note: Also known as Kine Exakta.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard 35mm cartridges.

Lens: All models incorporate bayonet lens mounts for interchangeability of lenses. Standard lens on Exakta I or II was 50mm, f/3.5 or f/2.8 Zeiss Tessar, or 54mm, f/3.5 Exaktar. Standard lens on Exakta V or VX is 50mm, f/3.5 or f/2.8 Tessar; 58mm f/2 Zeiss Biotar, 58mm, f/1.9, Primoplan, or 50mm, f/1.5 Angenieux. Latest lenses have pre-set diaphragms.

Shutter: All models have focal plane shutter, 12 to 1/1000 sec., plus B & T and self-timer (works with speeds from 6 to 1/1000 sec.).

EXAKTA I

Introduced: 1937 Discontinued: 1946 Flash Sync: Factory installed, for FP bulbs at all speeds (if properly adjusted). Also, M up to 1/25. Can add type 1 (X sync). See page 69.



Special Features: Film transport and shutter winding coupled; 2X magnified ground glass image; built-in film cutting knife; film transport and shutter winding by lever; shutter locked when camera is closed; sports finder; built-in magnifier for ground glass image.

Last List Price: Not available

Last Reported Used Selling Price Range in 1956: With f/3.5 Tessar, \$58-\$89

Serial Numbers: To approximately 648,000

Special Identification Points: 1. Permanently fixed reflex viewfinder; 2. Removable back; 3. Only one set of flash contacts on front of camera; 4. Most of the Model I cameras were marked "Exacta" instead of "Exakta," as in later models.

EXAKTA II

Introduced: 1949 Discontinued: 1950 Flash Sync: Same as Exakta I. Special Features: Protective cover for magnifier. Other features same as Exakta I.

Last List Price: Not available

Last Reported Used Selling Price Range in 1956: With f/2.8 Tessar, \$85-\$98

Serial Numbers: Approximately 648,-000 to 665,000



Special Identification Points: 1. Permanently fixed reflex viewfinder; 2. Removable back; 3. Only one set of flash contacts on front of camera; 4. The first few Model II cameras were marked "Exacta." Most of the Model II cameras, and all subsequent models, are marked "Exakta."

EXALTA V

Note: Version marketed in Europe, and sometimes met with in U. S., was known as Varex.

Introduced: 1951 Discontinued: 1952 Flash Sync: Factory installed. Two sets of flash contacts. One marked M or V is for FP bulbs at 1/100 and faster, M type 1/25 and slower. Other set marked X or E gives X sync up to 1/50.

Special Features: Removable reflex finder hood (can be replaced with prismatic eye-level focusing finder). Other features same as Exakta II.

Last List Price: Not available
Last Reported Used Selling Price
Range in 1956: With f/2 Xenon,
\$107-\$140

Serial Numbers: Approximately 665,-000 to 695,000

Special Identification Points: 1. Dif-



ferentiated from Exakta I and II by having two sets of flash contacts; 2. Further differentiated by Penta-Prism release lever on front of camera; 3. Differentiated from Exakta VX by not having film transport warning signal or film-speed indicator built in.

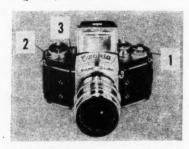
EXAKTA VX

Introduced: 1952 Discontinued: 1954 Flash Sync: Same as Exakta V.

Special Features: Accepts take-up cartridge; film transport warning signal; improved rewinding knob; hinged removable back; camera body and film aperture one-piece; improved latch on camera back release; built-in film speed indicator. Other features same as Exakta V.

Last List Price: With waist-level finder: with 50mm, f/2.8 Tessar, \$259.50; with 58mm, f/2 Biotar, \$335

Last Reported Used Selling Price Range in 1956: With f/2 Biotar (pre-set), \$175-\$215



Serial Numbers: From approximately 695,000

Special Identification Points: 1. Film counter which counts exposures after they have been made; 2. Film transport warning signal; 3. Film-speed indicator.

EXAKTA AUTOMATIC VX



Note: This model is practically identical with Exakta VX 1952, except for a few improvements (see "special features").

cial features").

Introduced: 1954 (Currently in production)

Lens: Standard lenses have fully automatic pre-set diaphragms: Factory coated 50mm, f/2.8 Isco Westanar; 50mm, f/1.9 Schneider Xenon; or 50mm, f/2 Isco Westagon.

Special Features: Gear-set exposure counter; hinged safety cover which fits around shutter release; improved rewind mechanism, improved shutter mechanism (exposures can be made with waist-level finder in folded position). Other features same as Exakta VX 1952.

Last List Price: With waist-level finder; with 50mm, f/2.8 Isco Westanar, \$239.50; with 50mm, f/1.9 Schneider Xenon, \$341.70; with 50mm, f/2 Isco Westagon, \$279.50

Last Reported Used Selling Price Range in 1956: Not available. Special Identification Points: 1. Gear for setting exposure counter.

KODAK RETINA AND RETINETTE

Manufacturer: Kodak A. G., Stuttgart, Germany

Importer: Eastman Kodak Co., Rochester, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard cartridge films.

Lens: Lenses have 3, 4, or 6 elements, depending on camera model. All models except Retina IIIC have fixed mount (unremovable) lenses; Retina IIIC has front component interchangeable with accessory wide-angle and telephoto components.

Shutter: All models have between-thelens shutters.

Flash Sync: Type 1 (X sync) can be added to any non-sync Retina. See page 69 for details.

Note: The following listing covers only models imported by Eastman Kodak. All cameras imported after 1948 have the letters "EK" preceding the serial number.

KODAK RETINA (1934 model)

Introduced: 1934 Discontinued: May, 1937

Lens: 50mm, f/3.5 Schneider Xenar. Shutter: Compur, 1 to 1/300 sec., plus B & T.

Flash Sync: None. See note above.

Special Features: Self-erecting bed; finger and plunger shutter releases; lever operated f-cusing mount; duplicate focus and diaphragm scales for horizontal and vertical pictures; optical eye-level viewfinder; built-in depth of field scale; automatic exposure counter; film-lock release; hinged back; tripod socket.

Last List Price: \$52.50 Last Reported Used Selling Price Range in 1956: \$16-\$26

Special Identification Points: 1. Top shutter speed of only 1/300 sec., instead of 1/500 as in later models; 2. Made only in black finish with nickel trim.

KODAK RETINA (1935 model)

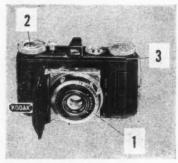
Introduced: February, 1935 Discontinued: May, 1937

Lens: 50mm, f/3.5 Schneider Xenar.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Same as 1934 model, except for shutter.



Last List Price: \$57.50 Last Reported Used Selling Price Range in 1956: \$17-\$29

Special Identification Points: 1. Top shutter speed of 1/500 sec., instead of 1/300 as in 1934 model; 2. Filmadvance release on top of camera; 3. Made only in black finish with nickel trim.

(1936 model)

Introduced: December, 1936 Discontinued: May, 1937

Lens: 50mm, f/3.5 Schneider Xenar.
Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Accessory shoe. Other features same as 1935 model.

Last List Price: \$57.50

Last Reported Used Selling Price Range in 1956: \$18-\$30

Special Identification Points: 1. Filmadvance release on back of camera, instead of on top as in earlier models; 2. Accessory shoe; 3. Made only in black finish with nickel trim.

(1937 model)



Introduced: 1937 Discontinued: 1938 Lens: 50mm, f/3.5 Kodak Anastigmat Ektar.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Satin-chrome finish. Other features same as Retina, 1936 model, except for lens.

Last List Price: \$57.50

Last Reported Used Selling Price Range in 1956: \$18-\$32

Special Identification Points: 1. Differentiated from previous Retina models by having Ektar, instead of Xenar lens; 2. Made only with satinchrome finish; 3. Differentiated from later Retina I, 1939 model, by having both B & T shutter settings, instead of only B.

(1939 model)

Introduced: September, 1939 Discontinued: June, 1940

Lens: 50mm, f/3.5 Kodak Ektar.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Body shutter release; double exposure prevention. Other features same as Retina I, 1937 model.

Last List Price: \$48.50

Last Reported Used Selling Price Range in 1956: \$20-\$34

Special Identification Points: 1. No T shutter setting; 2. Body shutter release; 3. Differentiated from later Retina I, 1948 model, by having Ektar, instead of Xenar lens; 4. Accessory shoe.

KODAK RETINA I (1948 model)

Introduced: October, 1948 Discontinued: January, 1951

Lens: Factory coated 50mm, f/3.5 Schneider Xenar.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Coated lens. Other features same as Retina I, 1939 model, but had no accessory shoe.

Last List Price: \$72.75

Last Reported Used Selling Price Range in 1956: \$40-\$50

Special Identification Points: 1. Differentiated from previous Retina I, 1939 model, by having Xenar instead of Ektar lens; 2. No accessory shoe on top of camera.

KODAK RETINA II (1937 model)

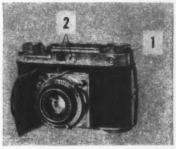
Introduced: November, 1937 Discontinued: Model with f/2.8 lens, February, 1939; model with f/2 lens, June, 1940

Lens: 50mm, f/2.8 or f/2 Schneider Xenon.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Coupled coincidence-type rangefinder; double exposure prevention; body shutter release; enclosed optical viewfinder; automatic exposure counter; built-



in depth of field scale; satin chrome finish.

Last List Price: With field case: with f/2.8 lens, \$115; with f/2 lens, \$120
Last Reported Used Selling Price
Range in 1956: \$48-\$70

Special Identification Points: 1. First model with coupled rangefinder; 2. Separate windows for view and rangefinder.

(1948 model)



Introduced: October, 1948 Discontinued: September, 1950

Lens: Factory coated 50mm, f/2 Schneider Retina-Xenon.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Retina section.

Special Features: Combined window for view- and rangefinder; accessory shoe. Other features same as Retina II, 1937 model, but had coated lens. Last List Price: \$197.75

Last Reported Used Selling Price Range in 1956: \$50-\$74

Does it pay to buy a nonsync camera and add sync to it? See page 69. Special Identification Points: 1. Combined, instead of separate, windows for view- and rangefinder; 2. No one-stroke film advance lever; 3. No factory installed flash sync.

KODAK RETINA IIA



Introduced: August, 1951 Discontinued: January, 1955

Lens: Factory coated 50mm, f/2 Schneider Retina-Xenon.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, M & X. Special Features: One-stroke film advance lever; film-speed indicator. Other features same as Retina II, 1948 model.

Last List Price: \$127.50

Last Reported Used Selling Price Range in 1956: \$77-\$88

Special Identification Points: 1. Factory installed MX flash sync; 2. No built-in photoelectric exposure meter; 3. Film advance lever on top, instead of bottom of camera.

KODAK RETINA IIC



Introduced: March, 1955 (Currently in production)

Lens: Factory coated 50mm, f/2.8 Schneider Retina-Xenon C; front component is interchangeable with accessory wide-angle or telephoto component.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Shutter incorporates Light Value Scale cross-coupled to lens diaphragm (as shutter speeds are changed, lens opening changes correspondingly, thus keeping relative exposures constant); viewfinder with projected-field frame and parallax correction. Other features same as Retina IIA.

Last List Price: \$139.50

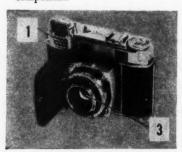
Last Reported Used Selling Price Range in 1956: \$82-\$94

Special Identification Points: 1. Differentiated from Retina IIA by having film advance lever on bottom instead of top of camera; 2. Interchangeable front lens component; 3. No built-in exposure meter as in Retina IIIC.

KODAK RETINA IIIC

Introduced: November 1954 (Currently in production)

Lens: Factory coated 50mm, f/2 Schneider Retina-Xenon C; front component is interchangeable with accessory wide-angle or telephoto component.



Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Shutter incorporates Light Value Scale cross-coupled to lens diaphragm (as shutter speeds are changed, lens opening changes correspondingly, thus keeping relative exposures constant); built-in photoelectric exposure meter providing direct Light Value Scale readings as well as conventional readings; viewfinder with projected-field frame and parallax correction. Other features same as Retina IIA.

Last List Price: \$190

Last Reported Used Selling Price Range in 1956: \$108-\$131

Special Identification Points: 1. Builtin photoelectric exposure meter; 2. Film advance lever on bottom, instead of top of camera as in Retina IIA; 3. Interchangeable front lens component.

KODAK RETINETTE

Introduced: June, 1952 Discontinued: May, 1954

Lens: Factory coated 50mm, f/4.5 Schneider Reomar. Shutter: Prontor SV, 1 to 1/300 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Hinged back; double exposure prevention; body shutter release; automatic exposure counter; built-in depth of field scale; enclosed optical viewfinder; accessory shoe; satin chrome finish.

Last List Price: \$56.25



Last Reported Used Selling Price Range in 1956: \$25-\$35 Special Identification Points: 1. Schneider Reomar lens.

KONICA

Manufacturer: Konishiroku Photo Industry Co., Ltd., Tokyo, Japan Importer: Konica Camera Co., 76 W. Chelten Ave., Philadelphia 44, Pa. Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridges.

KONICA (1946 version)

Introduced: 1946 Discontinued: 1952 Lens: Factory coated 50mm, f/3.5 Hexar.

Shutter: Konirapid, 1 to 1/500 sec., plus B & T.

Flash Sync: None. Add type 1 (X sync). See page 69.



Special Features: Coupled coincidence-type rangefinder; combined window for view- and rangefinder; automatic exposure counter; helical focusing.

Last List Price: \$69.75

Last Reported Used Selling Price Range in 1956: \$26-\$43 Serial Numbers: Up to 26,000 Special Identification Points: 1. Shutter has time setting; 2. No factory installed sync; 3. No double exposure prevention.

KONICA I

Introduced: 1950 Discontinued: 1954 Lens: Factory coated. Until 1951, came with 50mm, f/3.5 Hexar; from 1951 to 1952, came with 50mm, f/2.8 Hexar; from 1951 to 1954, came with 50mm, f/2.8 Hexanon.

Shutter: Konirapid S, 1 to 1/500 sec., plus B.



Flash Sync: Factory installed. M to 1/50, F all speeds.

Special Features: Same as 1946 Konica except for flash sync.

Last List Price: With Hexar f/3.5 or f/2.8 lens, \$69.75; with Hexanon f/2.8, \$79.75

Last Reported Used Selling Price Range in 1956: \$29-\$45

Serial Numbers: Hexar f/3.5 version, up to 37,600; Hexar f/2.8 version, up to 46,000; Hexanon f/2.8 version, up to 68,700

Special Identification Points: 1. Factory installed sync connector; 2. Shutter does not have Time setting; 3. No double exposure prevention.

KONICA II

Introduced: 1951 (Currently in production)

Lens: Factory coated 50mm, f/2.8 Hex-

Shutter: Konirapid S, 1 to 1/500 sec., plus B & T.



Flash Sync: Factory installed. Up to April, 1956, M to 1/50, F at all speeds. Latest version has F, M, and X with selector switch.

Special Features: Recessing lens mount; focusing lever which extends and locks lens mount in shooting position; double exposure prevention with provision for intentional double exposures; body shutter release; film type indicator. Other features same as Konica I.

Last List Price: \$89.75

Last Reported Used Selling Price Range in 1956: \$42-\$59

Special Identification Points: 1. Up to April, 1956, marketed with ASA bayonet flash connector. Latest version has internal PC connector at side of lens; 2. Shutter has Time setting; 3. Body shutter release.

KONICA IIA



Introduced: December, 1955 Discontinued: 1956

Lens: Factory coated 48mm, f/2 Hexanon.

Shutter: Konirapid FMX, 1 to 1/500 sec., plus B & T.

Flash sync: Factory installed F, M, and X, with selector switch.

Special Features: Full sync. Other features same as Konica II.

Last List Price: \$119.75 Last Reported Used Selling Price Range in 1956: \$60-\$81

Special Identification Points: 1. 48mm, f/2 Hexanon lens; 2. Full sync.

KONICA III

Introduced: July, 1956 (Currently in production)

Lens: Factory coated 48mm, f/2 Hexanon.

Shutter: Konirapid FMX, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, F,M, and X, with selector.

Special Features: Coupled coincidence type rangefinder with single eyepiece for view- and rangefinder; bright line view-rangefinder with parallax correction lines; rapid film advance lever; self resetting exposure counter; film rewind crank; double exposure prevention.



Last List Price: \$119.75

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Selftimer; 2. Film rewind crank; 3. Rapid film advance lever.

LEICA

Manufacturer: Ernst Leitz, G.M.B.H., Wetzlar, Germany

Importer: E. Leitz, Inc., 468 Fourth Ave., New York 16, N. Y.

Film Size: All models except Models 250 and "72" take up to 36 double frame (1 x 1½ in.) pictures on standard cartridge films. They also accept special Leica cassettes for loading bulk film. Model 250 uses special magazines and takes up to 250 double frame pictures; Model "72" takes up to 72 single frame (34 x 1 in.) pictures on standard cartridges and also accepts Leica cassettes.

Lens: All models except Models A, B, and M-3 incorporate threaded lens mounts for interchangeability of lens (Leica M-3 uses bayonet mount). Standard lens on older models was 50mm, f/3.5 Elmar; f/2 Summar; or f/2 Summitar. Standard lens on latest models is factory coated 50mm, f/3.5 Elmar, or f/2 Summicron. Focal lengths from 28 to 400mm are available.

Shutter: All models except Model B have rubberized cloth focal plane shutter. Model B had Compur between-the-lens shutter.

Flash Sync: Either Type 1 (X sync) or Type 2 (with FP bulbs) can be added to any non-sync Leica, except Model B. See page 69 for details.

Quick Identification Points: Leica models without built-in rangefinder: A, B, C, Standard, Ic, and If.

Leica models with coupled rangefinder but without front slow shutter-speed dial: II, IIc, IIf.

Leica models with coupled rangefinder and front slow shutter-speed dial: III, IIIa, IIIb, IIIc, IIIf.

Leica models with factory in-

stalled sync and built-in film speed indicator: If, IIf, IIIf.

Leica model with bayonet lensmount: M-3.

Note: Models A, B, and C came only in black enamel finish. Models Standard, II, and III came in either black enamel or chrome finish. Model IIIa and all subsequent models came only in chrome finish.

Note: Models Ic, IIc, IIIc, If, IIf, and IIIf measure 53% in. in length. Models A, B, C, Standard, II, III, IIIa and IIIb measure 51/4 in. and accessories which fit their base plates do not fit the later models.

LEICA MODEL A



Introduced: 1924 Discontinued: 1930 Lens: 50mm, f/3.5 Elmar.

Shutter Speeds: 1/20 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Film transport coupled with shutter winding; double and blank exposure prevention; accessory shoe; automatic exposure counter.

Last List Price: With 50mm, f/3.5 Elmar, \$75

Last Reported Used Selling Price Range in 1956: \$19-\$33

Serial Numbers: Below 54,000

Special Identification Points: 1. Permanently fixed lens mount; 2. No provision for cable release; 3. Made only with black enamel finish; 4. Spring infinity stop located at base of focusing mount; 5. No built-in rangefinder.

Note: Leica Model B is similar to



Model A, but has a Compur instead of focal plane shutter (see illustration above). Only a few were made. Flash Sync: None. Add Type 1 (X sync). See page 69.

LEICA MODEL C (Model I)

Introduced: 1930 Discontinued: 1933 Shutter Speeds: 1/20 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Interchangeability of lenses (earliest version required special fitting of interchangeable lenses; beginning in March, 1931, from serial number 60,500 onwards,



letter O was engraved on lens flange to indicate that no special fitting was required); provision for using cable release. Other features same as Model A.

Last List Price: With 50mm, f/3.5 Elmar, \$66

Last Reported Used Selling Price Range in 1956: With f/3.5 Elmar, \$30-\$44

Serial Numbers: Above 54,000 and below 100,000

Special Identification Points: 1. Provision for interchanging lenses; 2.
Made only with black enamel finish;
Rewind knob does not pull up;
No built-in rangefinder.

Note: Illustration shows Model C with separate Fokos rangefinder attached. Longer, vertically mounted Fodis rangefinder was originally supplied with the camera.

LEICA STANDARD MODEL (Model E)



Introduced: 1933 Discontinued: 1940 Shutter Speeds: 1/20 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Rewind knob pulls up for easier rewinding. Other features same as Model C.

Last List Price: With 50mm, f/3.5 Elmar: black enamel finish, \$128; chrome, \$134.80

Last Reported Used Selling Price Range in 1956: With f/3.5 Elmar, \$38-\$52 Serial Numbers: Above 100,000 and below 360,000

Special Identification Points: 1. Pullup rewind knob; 2. No built-in rangefinder.

LEICA MODEL Ic

Introduced: 1949 Discontinued: 1952 Shutter Speeds: 1/30 to 1/500 sec.. plus B.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Additional accessory shoe for detachable viewfinder; roller bearings in shutter; exposure counter moves by one division, instead of making complete revolution. Other features same as Standard model.

Last List Price: With 50mm, f/3.5 Elmar, \$136

Last Reported Used Selling Price Range in 1956: With f/3.5 Elmar, \$54-\$79

Serial Numbers: Above 455,000 and below 562,000

Special Identification Points: 1. Body measures 53% in. in length, instead of 51/4 in. as in Standard model; 2. Shutter speeds start at 1/30, instead



of 1/20 sec. as in Standard; 3. No factory installed sync or film speed indicator dial; 4. No built-in range-finder.

LEICA MODEL If

Introduced: 1952 (Currently in production)

Shutter Speeds: 1/25 or 1/30 sec. (see note under "shutter" in IIIf section), plus B.

Flash Sync: Factory installed. Same as IIIf, below.

Special Features: Film-speed indicator built into winding knob. Other features same as Standard model.

Last List Price: With factory coated 50mm, f/3.5 Elmar, and viewfinder, \$139.50



Last Reported Used Selling Price Range in 1956: With f/3.5 Elmar, \$85-\$119

Serial Numbers: Above 562,000

Special Identification Points: 1. Factory installed sync and built-in film-speed indicator; 2. No built-in rangefinder.

LEICA MODEL II (Model D)

Introduced: 1932 Discontinued: 1940 Shutter Speeds: 1/20 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Coupled rangefinder. Other features same as Standard model.

Last List Price: With 50mm, f/3.5 Elmar: black enamel finish, \$196.80;



chrome, \$203.20

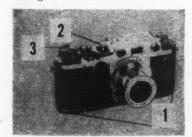
Last Reported Used Selling Price Range in 1956: With f/3.5 Elmar, \$50-\$72

Serial Numbers: Above 71,500 and below 360,000.

Special Identification Points: 1. Coupled rangefinder; 2. No front slow shutter-speed dial; 3. No lever for adjusting rangefinder as in Model III, below.

LEICA MODEL IIc

Introduced: 1949 Discontinued: 1951 Shutter Speeds: 1/30 to 1/500, B. Flash Sync: None. See note, beginning of Leica section.



Special Features: Coupled rangefinder. Other features same as Model Ic.

Last List Price: With 50mm, f/3.5 Elmar, \$210

Last Reported Used Selling Price Range in 1956: With f/3.5 Elmar, \$78-\$112

Serial Numbers: Above 440,000 and below 451,000

Special Identification Points: 1. Body

measures 53% in. in length, instead of 51/4 in. as in Model II; 2. Shutter speeds start at 1/30, instead of 1/20 sec. as in II; 3. No factory installed sync or film-speed indicator dial as in IIf, below.

LEICA MODEL IIF

Introduced: 1951 (Currently in production)

Shutter Speeds: 1/30 or 1/25 to 1/500 sec. (see note under "shutter" in IIIf



section) plus B. Current version has speeds up to 1/1000 sec.

Special Features: Coupled rangefinder. Other features same as Model If.

Flash Sync: Factory installed. Same as 111f, below.

Last List Price: With following factory coated lenses: 50mm, f/3.5 Elmar \$178.50; f/2 Summitar (discontinued), \$289; f/2 Summicron, \$276

Last Reported Used Selling Price Range in 1956: With f/3.5 Elmar, \$100-\$134

Serial Numbers: Above 451,000 Special Identification Points: 1. Builtin film-speed indicator.

LEICA MODEL III (Model F) Introduced: 1933 Discontinued: 1940 Shutter Speeds: 1 to 1/500 sec., plus

B & T.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Separate front slow shutter-speed dial for additional slow shutter speeds down to 1 sec.; 1.5X magnifier built into rangefinder eyepiece; lever for adjusting rangefinder. Otherwise similar to Model 11.



Last List Price: With 50mm, f/2 Summitar: black enamel finish, \$313; chrome, \$320

Last Reported Used Selling Price Range in 1956: With f/3.5 Elmar, \$60-\$94 Serial Numbers: Above 109,000 and below 360,000

Special Identification Points: 1. Front slow shutter-speed dial with settings from 1/20 down to 1 sec.; 2. Top shutter speed is only 1/500 sec.

LEICA MODEL IIIa (Model G)

Introduced: 1935 Discontinued: 1938 Shutter Speeds: 1 to 1/1000, B & T. Flash Sync: None. See note, beginning of Leica section.

Special Features: Additional top shutter speed of 1/1000 sec. Other features same as Model III.

Last List Price: With 50mm, f/2 Summar, \$192

Last Reported Used Selling Price Range in 1956: With f/2 Summar, \$70-\$106

Serial Numbers: Above 156,201 and below 240,016



Special Identification Points: 1. Top shutter speed of 1/1000 sec.; 2. Rangefinder adjusting lever is located on rangefinder eyepiece instead of at-base of rewind knob as in IIIb.

LEICA MODEL "72"

Introduced: October, 1954 (Currently in production)

Film Size: Up to 72 single frame (3/4 x 1 in.) pictures on standard 35mm



cartridge film (also accepts Leica cassettes).

Flash Sync: Factory installed. Same as black dial IIIf, below.

Note: This model has the same proportions and features (except for the single frame picture format) as the Leica Model IIIa, plus film-type indicator built into winding knob.

Last List Price: Less lens, \$189; with 50mm, f/3.5 Elmar lens, \$246

Last Reported Used Selling Price

Range in 1956: Not available.

Serial Numbers: Above 357,301 and below 357,500

Special Identification Points: 1. Measures 51/4 in. in length; 2. Factory installed sync (synchro-selector dial can easily be seen); 3. Only Leica which takes single frame pictures.

LEICA MODEL IIIb (Model G, 1938)



Introduced: 1938 Discontinued: 1940 Shutter Speeds: 1 to 1/1000, B & T.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Viewfinder and rangefinder eyepieces placed close together. Other features same as Model IIIa.

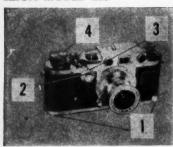
Last List Price: With 50mm, f/2 Summitar, \$332.80

Last Reported Used Selling Price Range in 1956: With f/2 Summitar, \$108-\$148

Serial Numbers: Above 240,017 and below 360,000

Special Identification Points: 1.
Rangefinder adjusting lever is located at base of rewind knob; 2.
Viewfinder and rangefinder eyepieces are closer together than on Model IIIa.

LEICA MODEL IIIc



Introduced: 1940 Discontinued: 1950 Shutter Speeds: 1 to 1/1000 sec., plus B & T.

Flash Sync: None. See note, beginning of Leica section.

Special Features: Roller bearings in shutter; improved exposure counter (moves by one division, instead of making complete revolution, when winding film). Other features same as Model IIIb.

Last List Price: With 50mm, f/2 Summitar, \$385

Last Reported Used Selling Price

Range in 1956: With f/2 Summitar, \$110-\$150

Serial Numbers: Above 360,000 and below 525,000

Special Identification Points: 1. Body measures 5\% in. in length, instead of 5\% in., as in previous models; 2. Front slow speed dial markings start at 1/30 instead of 1/20 sec. as in IIIb; 3. Version made before 1949, with serial number below 380,000, had no locking stud on slow speed dial; later version, made after 1949, was supplied with locking stud; 4. No built-in film-speed indicator.

LEICA MODEL IIIf (1950 Version)

Introduced: 1950 Discontinued: 1954
Shutter Speeds: 1 to 1/1000 sec., plus
B & T. Note: Initial production of
f series Leica cameras (with synchro
dials engraved in black) had same
series of shutter speeds as corresponding C series models: fast
speeds: 1/30, 1/40, 1/60, 1/100
sec., etc.; slow speeds: 1/30, 1/20,



1/15, 1/10, 1/4, 1/2, and 1 sec. Current f series cameras (with synchro dials engraved in red) have following shutter speeds: fast speeds: 1/25, 1/50, 1/75, 1/100 sec., etc.; slow speeds: 1/25, 1/15, 1/10, 1/5, 1/2, and 1 sec.

Flash Sync: Factory installed. X up to 1/30 (black dial model) or 1/50 (red dial model); FP bulbs at 1/100 and faster. Synchro selector dial adjusts flash delay.

Special Features: Film-speed indicator built into winding knob. Other features same as Model IIIc.

Last List Price: With following factory coated lenses: 50mm, f/3.5 Elmar, \$287; f/2 Summitar, \$369; f/2 Summicron, \$386

Last Reported Used Selling Price Range in 1956: With f/2 Summicron, \$195-\$239

Serial Numbers: Above 525,000

Special Identification Points: 1. Black dial on earlier models, red dial on later models; progression of shutter speeds; 2. Built-in film speed indicator.

LEICA MODEL IIIf (Latest Version)

Introduced: May, 1954 (Currently in production)

Note: This model is exactly like the immediately preceding IIIf, except that it has a built-in self-timer.

Last List Price: With factory coated 50mm, f/3.5 Elmar lens, \$238.50; with 50mm, f/2 Summicron, \$336

Last Reported Used Selling Price Range in 1956: With f/2 Summicron, \$201-\$248

Serial Numbers: Above 685,000



Special Identification Points: 1. Selftimer on front of camera, next to slow-speed dial.

LEICA MODEL M3

Introduced: April, 1954 (Currently in production)

Note: The M3 is a completely new camera, and bears little resemblance to other Leica models. It measures 3 in. high, 5 14/16 in. long, and 1½ in. deep.

Film Size: Same as other Leica models. Lens: Interchangeable; bayonet mount (owners of earlier model Leicas can have their thread-mount lenses equipped with bayonet adapters for use in the new M3 camera).

Standard lenses are 50mm, f/8.5 Elmar M; 50mm, f/2 Summicron M; or 50mm, f/1.5 Summarit M, all with click stops. Accessory lenses: 35mm, f/8.5 Summaron M, 90mm, f/4 Elmar M (in either rigid or collapsible mount), 135mm, f/4.5 Hektor M.



Shutter: Focal plane, 1 to 1/1000 sec., plus B and self-timer. Speeds can be set on the single dial before or after shutter winding.

Flash Sync: Factory installed. X up to 1/50; FP bulbs at 1/100 and faster. Separate flash connections; delay set automatically as speed dial is rotated.

Special Features: Coupled rangefinder with single window for range-view-

finder; automatic parallax adjustment; large viewfinder image; builtin field-of-view for 50mm, 90mm and 135mm lenses (frames for 90mm and 135mm lenses automatically appear when lenses of corresponding focal length are installed in camera); exposure counter which resets automatically when camera is loaded; single shutter-speed dial to which accessory M3 photoelectric exposure meter automatically couples; removable hinged back with improved pressure plate and film channel guides; film-type indicator on camera back; double and blank exposure prevention; film transport coupled with shutter winding; rapid-film-advance lever; accessory shoe; self-timer.

Last List Price: With 50mm, f/3.5 Elmar M, \$354; with 50mm, f/2 Summicron M, \$447; with 50mm, f/1.5 Summarit M, \$477

Last Reported Used Selling Price Range in 1956: With f/2 Summicron, \$297-\$359

Serial Numbers: Above 700,001

Special Identification Points: 1.
Rapid-film-advance lever; 2. Lever for selecting film "advance" or "rewind" situated on front of camera; 3. Bayonet lens mount; 4. Combined rangefinder-viewfinder window; 5. Single shutter-speed dial; 6. Latest version has frame selector lever for selecting viewfinder frames for 90mm and 135mm lenses.

LEICA MODEL 250 (Model FF)



Introduced: 1934 Discontinued: 1940 Shutter Speeds: 1 to 1/500 sec., plus B & T.

Flash Sync: See note, beginning of Leica section.

Special Features: Accepts special magazines for taking up to 250 double frame pictures. Other features same as Model III.

Last List Price: With 50mm, f/3.5 Elmar, \$355.20

Last Reported Used Selling Price Range in 1956: With f/3.5 Elmar, \$170-\$201

Serial Numbers: Above 130,000 and below 360,000

Special Identification Points: 1. Extra large dimensions to accommodate 250-exposure magazines.

MINOLTA

Manufacturer: Chiyoda Kogaku Seiko Co., Ltd., Osaka, Japan

Importer: Chiyoda Kogaku Seiko Co., Ltd., 150 Broadway, New York 38, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures using standard cartridge films.

MINOLTA A

Introduced: 1955 (Currently in production)

Lens: Factory coated 45mm, f/3.5 Rokkor.

Shutter: Behind-lens Optiper MFX, 1 to 1/300 sec., plus B.



Flash Sync: Factory installed, M, F, and X.

Special Features: Coincidence type coupled rangefinder combined with viewfinder; rapid film advance lever coupled to shutter wind; accessory shoe; body shutter release; built-in depth of field scale.

Last List Price: \$49.95

Last Reported Used Selling Price Range in 1956: \$28-\$40

Special Identification Points: 1. "A" engraved on top of rangefinder housing; 2. Rapid film advance lever located on top of camera.

MINOLTA 35, MODEL II

Note: An earlier, similar model may occasionally be seen in camera stores, although it was never directly imported into the U.S.A.

Introduced: 1953 (Currently in production)

Lens: Interchangeable, by means of threaded lens mount. Standard lenses are factory coated 45mm, f/2.8, or 50mm, f/2 Super Rokkor. Accessory lenses are 110mm, f/5.6, and 135mm, f/4 Tele Rokkor.

Buying a new or used camera? See page 104 for quick, practical tests.



Shutter: Focal plane, 1 to 1/500 sec., plus B and T and self-timer.

Flash Sync: Factory installed. For FP bulbs; X sync up to 1/25 sec.

Special Features: Coupled coincidence type rangefinder with single window for view-rangefinder; double exposure prevention; viewfinder adjustment for eyesight; accepts special cassettes for loading bulk film; accessory shoe; hinged back.

Last List Price: With 45mm, f/2.8 Super Rokkor, \$159.50; with 50mm, f/2 Super Rokkor, \$184.50

Last Reported Used Selling Price Range in 1956: With f/2.8 Super-Rokkor, \$77-\$98

Special Identification Points: 1.

"Model II" engraved on front of camera; 2. Red "X" for X type sync engraved on slow speed dial.

NIKON

Manufacturer: Nippon Kogaku K.K., Tokyo, Japan

Importer: Nikon, Inc., 251 Fourth Avc., New York 10, N. Y.

Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures in standard cartridges. They also accept cassettes.

Lens: All models incorporate bayonet lens mounts for interchangeability of lenses; all factory coated; standard lens is 50mm f/2 Nikkor or 50mm f/1.4 Nikkor. Focal lengths from 25mm to 500mm are available. Shutter: Cloth focal plane shutter.

NIKON MODEL "S"



Introduced: 1946 Discontinued: 1954 Shutter Speeds: 1 to 1/500 sec. plus Bulb and Time.

Flash Sync: Factory installed. Two flash outlets. "S" is for X sync up to 1/20; "F" for FP bulbs, 1/40 and faster.

Special Features: Coupled long base rangefinder; single, dual purpose eyepiece for viewing and focusing; finger tip wheel for focusing 50mm and wide-angle lenses from top of camera; full opening back; interchangeable lenses; coupled film transport and shutter cocking; double exposure prevention; accepts full range of accessories; automatic exposure counter.

Last List Price: With factory coated 50mm f/2 Nikkor, \$269; with factory coated 50mm f/1.4 Nikkor, \$299.50

Last Reported Used Selling Price Range in 1956: With f/2 Nikkor, \$110-\$160

Special Identification Points: 1.

Double prong synchro outlet, marked for speedlight and for flash bulbs; 2. Top shutter speed 1/500; 3. Camera back has two locks.

NIKON MODEL "52"

Introduced: 1955 (Currently in production)

Shutter Speeds: 1 to 1/1000, B & T.
Flash Sync: Factory installed. Single outlet on side for X at 1/50, FP bulbs 1/60 and faster. Sync selector dial sets delay. Outlet on top for special flashgun, FP bulbs.

Special Features. 1 to 1 life size image in rangefinder/viewfinder; single stroke lever for rapid film transport advances film and sets shutter for next exposure; high speed film rewind lever, folds and rests flush in rewind knob; shutter speed can be set before or after film is wound.

Last List Price: With factory coated 50mm f/2 Nikkor, \$299.50; with factory coated 50mm f/1.4 Nikkor,



\$345; with 50mm f/1.1 Nikkor, \$499.50

Last Reported Used Selling Price Range in 1956: With f/2 Nikkor, \$190-\$224

Special Identification Points: 1. Single stroke film rewind and shutter cocking lever; 2. High speed film rewind lever which folds and sets

flush in rewind knob; 3. Life size 1 to 1 finder image; 4. Two sync outlets; 5. ASA film indicator and single back lock.

ROBOT

Manufacturer: Robot-Berning & Co., Dusseldorf, Germany

Importer: Intercontinental Marketing Corp., 251 Fourth Ave., New York 10, N. Y.

Film Size: All models except Royal 36 (24 x 36mm) take 24 x 24mm (1 x 1 in.) pictures on 35mm film. Earlier models accept only special Robot loading and take-up cassettes (for up to 50 exposures) later models accept standard 35mm cartridge films (for 55 exposures).

Lens: All models incorporate threaded lens mounts for interchangeability of lenses (Robot Royal has clip-in thread; lenses which fit this model do not fit the other versions). Various lens manufacturers, including Hugo Meyer, Schneider, and Carl Zeiss, have supplied lenses for the Robot; focal lengths range from 30mm to 150mm (200mm for Robot Royal).

Shutter: All models have rotary-blade, behind-lens, rapid sequence shutter.

ROBOT I



Introduced: 1934 Discontinued: 1938 Shutter Speeds: 1 to 1/500 plus T. Flash Sync: None. Not advisable to try to add sync.

Special Features: Built-in spring motor for transporting film, winding shutter, and operating exposure counter simultaneously; 24 pictures on one winding; zone focusing system; movable finder for direct and right-angle viewing; built-in yellowgreen filter; lock for preventing accidental shutter release (in late version only). Note: Model I accepts darkroom-loading special Robot cassettes only. Two cassettes are used; the take-up cassette can be removed at any time for processing a partly exposed roll. Film cannot be rewound back into the film-loading cassette.

Last List Price: With 30mm, f/3.5 Meyer Primotar, \$109; with 32.5mm, f/2.8 Zeiss Tessar, \$139

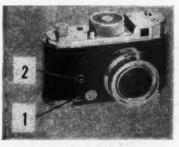
Last Reported Used Selling Price Range in 1956: With f/2 Tessar, \$36-\$51

Special Identification Points: 1. Only Robot model with slow shutter speed of 1 sec.; 2. No sync outlet on front; 3. Swiveling viewfinder; 4. Exposure counter calibrated from 1 to 24 (repeats itself for exposures 25 to 50).

ROBOT II

Introduced: 1938 Discontinued: 1950 Shutter Speeds: √2 to 1/500, plus B. Flash Sync: Factory installed. M, up to 1/50. May be converted to X only.

Special Features: Adjustable viewer for direct or right-angle viewing (not movable, as in Model I); safety catch for shutter release; factory installed flash sync; uses Robot cassettes which can be loaded with



daylight-loading refills; exposure counter is part of camera body and is calibrated from 1 to 55. Other features same as Model I, but does not have built-in filter. Note: This model was available with double-spring for 48 pictures on 1 winding.

Last List Price: With 30mm, f/3.5 Zeiss Tessar, \$129; with 32.5mm, f/2.8 Tessar, \$144; with 40mm f/2 Zeiss Biotar, \$184. Note: Above cameras with double-spring motor sold for \$28 extra.

Last Reported Used Selling Price Range in 1956: With f/2 Biotar, \$50-\$79

Special Identification Points: 1. Slow shutter speeds down to only 1/2, instead of 1 sec. as on Model I; 2. Single flash contact on front of camera.

LW ROBOT

Note: This model is very similar to Model II, but came only in black enamel finish. It was supplied only with a double-spring motor for 48 pictures on one winding. Made for the German Air Force, only a limited number reached the market.

Introduced: 1940 Discontinued: 1945 Flash Sync: Same as Robot II. Last List Price: Not available. Last Reported Used Selling Price Range in 1956: With f/2 Xenon, \$40-\$62

Special Identification Points: 1. Came only in black finish; 2. "LW" pre-



cedes serial number, which is located inside camera body; 3. Extra long spring-motor housing.

ROBOT IIa

Note: This version was marketed in the U.S.A. by Burleigh Brooks, Inc. Introduced in 1951, it was taken off the American market in 1953, but is currently in production in Ger-

Shutter Speeds: 1/2 to 1/500, B.

Flash Sync: Factory installed, M and X, double flash outlet on front of camera.

Special Features: Accepts standard 35mm cartridges as well as special Robot cassettes; accessory shoe. Other features same as Model II. Note: Model Ha was available with double-spring motor for 48 pictures on 1 winding.

Last List Price: With 37.5mm, f/2.8 Schneider Xenar, \$168.95; with



40mm, f/1.9 Schneider Xenon, \$209.50

Last Reported Used Selling Price Range in 1956: With f/1.9 Xenon,

Special Identification Points: 1. Double flash contacts on front of camera; 2. No rewind handle.

ROBOT JUNIOR

Note: This is basically the same camera as Robot IIa, but does not have adjustment for right-angle viewing.



Introduced: 1955 (Currently in production)

Last List Price: With 40mm, 1/3.5 Schneider Radionar, \$93.06; with 38mm, f/2.8 Schneider Xenar, \$115.15; with 40mm, f/1.9 Schneider Xenon, \$140.07

Last Reported Used Selling Price Range in 1956: Not Available.

Special Identification Points: 1. Robot Junior nameplate; 2. No adjustment for right-angle viewing; 3. No rewind handles.

ROBOT STAR

Introduced: 1952 (Currently in production)

Shutter Speeds: 1/2 to 1/500, B.

Flash Sync: Factory installed, M & X. Special Features: Accepts standard 35mm cartridges (does not take special Robot loading cassette, but does



accept take-up cassette); rewind handle for rewinding film back into cartridge. Other features same as Model IIa. Note: This model is available with double-spring motor for 48 pictures on one winding.

Last List Price: With 30mm, f/3.5 Schneider Xenagon, \$241; with 38mm, f/2.8 Xenar, \$217.50; with 40mm, f/1.9 Xenon, \$249.50

Last Reported Used Selling Price Range in 1956: With f/2 Biotar, \$95-\$132

Special Identification Points: 1. Rewind handle.

ROBOT ROYAL 24

Note: This model's proportions and design differ considerably from those of previous models. It embodies several new features, including a coupled rangefinder.

Introduced: 1953 (Currently in production)

Lens: Standard lenses are 30mm, f/3.5 Schneider Xenagon; 38mm f/2.8 Xenar; or 40mm, f/1.9 Xenagon. All of these lenses are factory coated and couple to the Royal's rangefinder. They have clip-in threads for quick interchangeability (cannot be used on earlier versions).

Shutter Speeds: 1/2 to 1/500 sec., B. Flash Sync: Factory installed, M and X. Double flash outlet on front of

base plate.

Special Features: Coupled rangefinder with combined range- and viewfinder eyepiece; built-in spring motor for transporting film, winding shutter, and operating exposure counter simultaneously; 24 pictures on one winding; additional setting



for automatic-sequence pictures at rate of 8 per second; film type indicator; simplified film loading; accepts standard 35mm cartridges; rewind knob for rewinding film back into cartridge; safety lock for preventing accidental exposure; tabletop support leg.

Last List Price: With 30mm, f/3.5 Schneider Xenagon, \$281.75; with 38mm, f/2.8 Xenar, \$255; with

40mm, f/1.9 Xenon, \$295 Last Reported Used Selling Price Range in 1956: With f/1.9 Xenon,

Special Identification Points: 1. Flash contacts located on front of camera's base plate; 2. Built-in rangefinder; 3. Selector dial for regular or automatic-sequence pictures; 4. Springmotor winding knob.

ROBOT ROYAL 36

Film Size: Up to 36 double frame (1 x 11/2 in.) pictures using standard cartridge films or special Robot cassettes.

Lens: Interchangeable by means of clip-in threads (lens mount is same as in Robot 24). Standard lenses are factory coated 45mm, f/2.8 Schneider Xenar or 50mm, f/2 Zeiss Sonnar. Accessory lenses are factory coated 35mm, f/2.8 Schneider Xenagon or 75mm, f/4 Schneider Tele-Xenar.

Shutter Speeds: 1/2 to 1/500, plus B. Flash Sync: Factory installed. Same as Robot 24.



Special Features: Built-in spring motor for transporting film, winding shutter, and operating exposure counter simultaneously for 10 pictures on one winding (unlike Robot 24, Robot 36 provides only single-shot operation; there is no provision for automatic "burst" operation). Other features same as Robot 24.

Last List Price: With 45mm, f/2.8 Schneider Xenar, \$229.95; with 50mm, f/2 Zeiss Sonnar, \$329.95

Last Reported Used Selling Price Range in 1956. Not available.

Special Identification Points: 1. Rectangular, instead of square view-finder window as in Robot 24; 2. "Robot 36" engraved on front of camera; 3. No automatic-sequence selector dial.

VOIGTLANDER

Manufacturer: Voigtlander A. G., Braunschweig, Germany

Importer: Willoughby's-Wholesale, 110 W. 32nd St., New York 1, N. Y. Film Size: All models take up to 36 double frame (1 x 1½ in.) pictures on standard 35mm cartridges.

VOIGTLANDER PROMINENT

Introduced: 1951 (Currently in production)

Lens: Interchangeable, by means of bayonet lens mount. (The interchangeable lenses fit Prominent cameras with serial numbers higher than 8,500 without special adjustment.) Standard lenses are factory coated 50mm, f/3.5 Color-Skopar; f/2 Ultron; and 50mm, f/1.5 Nokton. Accessory lenses (all lenses without reflex housing couple with camera's rangefinder): 35mm, f/3.5 Skoparon wide-angle; 100mm, f/4.5

Dynaron telephoto; and 100mm, f/5.5 Telomar with reflex housing. Shutter: Behind-the-lens Synchro-Compur 0, 1 to 1/500, B, self-timer.

Flash Sync: Factory installed. Early version had X only; later ones have M and X.

Special Features: Coupled coincidencetype rangefinder; coupled film transport and shutter winding mechanism; double and blank exposure prevention; exposure counter; device for changing partly exposed films; film indicator; built-in depth of field scale; body shutter release; accessory shoe (on latest model).

Last List Price: With 50mm, f/3.5 Color-Skopar, \$157.50; with f/2-Ultron, \$220; with f/1.5 Nokton, \$270

Last Reported Used Selling Price Range in 1956: \$119-\$153

Special Identification Points: 1. Version supplied in early part of 1951 had Compur-Rapid shutter with X flash sync only; version supplied in



second half of 1951 and after has Synchro-Compur with MX flash sync; 2. Earliest version had no accessory shoe; latest version comes with accessory shoe.

VOIGTLANDER VITESSA (1950 model)

Introduced: 1950 Discontinued: 1951 Lens: 50mm, f/2 Ultron.

Shutter: Compur-Rapid 00, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, X only. Special Features: Quick-action "Combi-Plunger" for cocking shutter, advancing film, and operating exposure counter in one motion; coupled rangefinder with combined view- and rangefinder eyepiece; body shutter release; automatic parallax compensation; double exposure prevention.

Last List Price: \$157.50 Last Reported Used Selling Price Range in 1956: \$58-\$80



Special Identification Points: 1. Differentiated from 1951 model by not having accessory shoe; 2. Differentiated from all subsequent models by having only X, instead of MX, flash sync.

VOIGTLANDER VITESSA (1951 model)

Introduced: 1951 Discontinued: 1954 Lens: 50mm, f/2 Ultron.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, M & X.

Special Features: Accessory shoe.

Other features same as 1950 model.

Last List Price: \$157.50

Last Reported Used Selling Price Range in 1956: \$60-\$92

Special Identification Points: 1. Differentiated from 1950 model by having MX, instead of only X sync; 2. Differentiated from later models by not having self-timer.

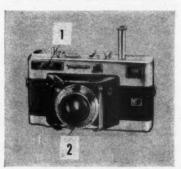
VOIGTLANDER VITESSA (f/2 & f/2.8, latest models)

Introduced: f/2, 1954; f/2.8, 1955 (Currently in production)

Lens: 50mm, f/2 Ultron or f/2.8 Color-Skopar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.



Special Features: Shutter incorporates Light Value Scale cross-coupled to lens diaphragm (as shutter speeds are changed, lens opening changes correspondingly, thus keeping relative exposures constant); built-in photoelectric exposure meter. Other

features same as 1950 modei.

Last List Price: With f/2 Ultron, \$159.59; with f/2.8 Color-Skopar, \$139.50

Last Reported Used Selling Price Range in 1956: With f/2 Ultron, \$89-\$109

Special Identification Points: 1. Differentiated from previous models by having built-in exposure meter; 2. Further differentiated by having shutter with Light Value Scale.

VOIGTLANDER VITESSA f/3.5

Introduced: 1954 (Currently in production)

Lens: 50mm, f/3.5 Color-Skopar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer. Note: Earliest version did not have shutter incorporating Light Value Scale; latest version has LVS.

Flash Sync: Factory installed, M & X. Special Features: Shutter (in current model) incorporates Light Value Scale; accessory shoe. Other features same as 1950 model.

Last List Price: \$99.50

Last Reported Used Selling Price Range in 1956: \$54-\$63

Special Identification Points: 1. Differentiated from other models by having f/3.5 lens.

VOIGTLANDER VITO I

Introduced: 1939 Discontinued: 1950 Lens: 50mm, f/3.5 Skopar or (in 1949 version) Color-Skopar.



Shutter: Prontor S, 1 to 1/300 sec., plus B and self-timer; Compur, 1 to 1/300 sec., plus B; or Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: Early versions had none. Can add Type 1 (see page 69). Later had X only.

Special Features: Hinged filter mount (in earliest version only); built-in depth of field scale; automatic exposure counter; shutter release bar; double and blank exposure prevention; zone focusing settings.

Last List Price: With Compur shutter, \$61.25; with Compur-Rapid, \$61.25; with Prontor S, \$54.25

Last Reported Used Selling Price Range in 1956: With f/3.5 Skopar and Prontor S, \$21-\$32 Special Identification Points: 1. Shutter release bar instead of round plunger.

VOIGTLANDER VITO II



Introduced: 1950 Discontinued: 1955 Lens: Factory coated 50mm, f/3.5 Color-Skopar.

Shutter: Prontor S, SV or (in current Model) SVS, 1 to 1/300 sec., plus B and self-timer; Compur-Rapid or Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed. Those with Prontor S or Compur-Rapid had X only; with Prontor SV, SVS or Synchro-Compur, M and X.

Special Features: Device for changing partly exposed films; round shutter release plunger. Other features same as later version of Vito I.

Last List Price: With Prontor S, SV, or SVS (current) shutter, \$54.50; with Compur-Rapid or Synchro-Compur, \$61.25

Last Reported Used Selling Price Range in 1956: With Compur Rapid, \$31-\$40

Special Identification Points: 1.
Round shutter release plunger instead of bar; 2. No built-in rangefinder; 3. Version introduced in 1951 has fixed film take-up spool.

VOIGTLANDER VITO IIa

Introduced: 1955 (Currently in production)

Lens: Factory coated 50mm, f/3.5 Color-Skopar.

Shutter: Prontor SVS, 1 to 1/300 sec., plus B and self-timer.

Flash Sync: Factory installed M and X.



Special Features: Rapid film advance lever; pull-out film rewinding knob;

accessory shoe. Other features same as Vito II.

Last List Price: \$54.50

Last Reported Used Selling Price Range in 1956: \$29-\$36

Special Identification Points: 1. Pullup rewind knob; 2. Rapid film advance lever; 3. Accessory shoe.

VOIGTLANDER VITO III

Introduced: 1951 Discontinued: 1954 Lens: Coated 50mm, f/2 Ultron.



Shutter: Compur-Rapid or (in current model) Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Same as Vito II.

Special Features: Coupled rangefinder with single eyepiece for view-rangefinder; film type indicator. Other features same as later version of Vito II.

Last List Price: With Compur-Rapid shutter, \$157.50; with Synchro-Compur (current), \$157.50

Last Reported Used Selling Price Range in 1956: \$60-\$99

Special Identification Points: 1. Coupled rangefinder.

VOIGTLANDER VITO B



Introduced: 1954 (Currently in production)

Lens: Factory coated 50mm, f/3.5 or f/2.8 Color-Skopar.

Shutter: With f/3.5 lens: Pronto, 1/25 to 1/200 sec., plus B and self-timer; or Prontor SVS, 1 to 1/300 sec., plus B and self-timer. With f/2.8 lens: Prontor SVS.

Flash Sync: Factory installed. With Pronto Shutter, X only. With Prontor SVS, M and X.

Special Features: Built-in depth of

field scale; rapid film winder; body shutter release; automatic exposure counter; zone focusing settings; film winding coupled to shutter cocking; double and blank exposure prevention; accessory shoe.

Last List Price: With f/3.5 lens: with Pronto shutter, \$45.50; with Prontor SVS, \$54.50. With f/2.8 lens and Prontor SVS shutter, \$68.75

Last Reported Used Selling Price Range in 1956: With f/3.5 lens and Pronto shutter, \$24-\$31

Special Identification Points: 1. Exposure counter located on front of camera; 2. Rigid lens mount, instead of bellows as in other Vito models.

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ing; built-in magnifier; sports finder; built-in depth of field scale.

Last List Price: \$61.12

Last Reported Used Selling Price Range in 1956: \$16-\$21.50

Serial Numbers: 750,501 to 896,721 Special Identification Points: 1. Only Argoflex model with plastic body.

Note: Model CEW, known as the Wardflex, was made by Argus but sold by Montgomery Ward. It bears the same serial numbers as Model E, but has these differences: 1. f/6.3 instead of f/4.5 lens; 2. "Wardflex" instead of "Argoflex," marked on front of camera body.

REFLEX CAMERAS, 24x24 AND SMALLER SIZES

REFLEX CAMERAS USING ROLL FILM have long maintained a dedicated following. Within the past year there has been an upsurge of interest in this type of camera, mainly as the result of new, faster color films. Addition of built-in exposure meters, simplification of operating controls, wide range flash sync—all are helping to make the small reflex increasingly popular. There are also great numbers of excellent used reflexes on camera dealers' shelves. Most of the leading photojournalists have used this type of camera. Why not you? The exclusive information in this Camera Buying Guide will help you choose a reflex suited to your needs.

ANSCO

Manufacturer: Ansco, 40 Charles St., Binghamton, N. Y.

Film Size: All models take 12 pictures 21/4 x 21/4 on 120 film.

ANSCO AUTOMATIC REFLEX (1947)

Introduced: 1947 Discontinued: 1952 Lens: Factory coated 83mm, f/3.5 Ansco Anastigmat; viewing lens f/3.2.

Shutter: Ansco, 1 to 1/400 sec., plus B. Flash Sync: None. Can add Type 1 (X sync). See page 69.

Special Features: Eye-level focusing; built-in magnifying lens for critical focus; automatic film transport and exposure counter; double exposure prevention.

Last List Price: \$175

Last Reported Used Selling Price Range in 1956: \$54-\$79

Special Identification Points: 1. No factory installed sync.

ANSCO AUTOMATIC REFLEX (1949)

Introduced: 1949 Discontinued: 1952 Note: This camera is the same as the 1947 version, except for sync.

Flash Sync: Factory installed for Class F bulbs, 1/50 to 1/400; M up to 1/25. Can be changed to Type 1 (X sync). See page 69.

Last List Price: \$195

Last Reported Used Selling Price Range in 1956: \$60-\$89



Special Identification Points: 1. Factory installed sync.

ARGUS

Manufacturer: Argus Cameras, Inc., 405 Fourth St., Ann Arbor, Mich. Film Size: All models take 12 pictures 21/4 x 21/4 on 620 film (Model E accepts either 120 or 620 film).

ARGOFLEX MODEL E

Introduced: 1940 Discontinued: 1948 Lens: 75mm, f/4.5 Varex, viewing lens f/4.5. Note: Argoflex Model E cameras made after July, 1946 came with coated Varex lenses.

Shutter: Alphax, 1/10 to 1/200 sec., plus B & T.

Flash Sync: None. Add Type 1 (X sync). See page 69. Special Features: Ground glass focus-

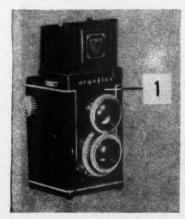
ARGOFLEX MODEL EM

Introduced: 1948 Discontinued: 1948 Lens: Factory coated 75mm, f/4.5 Varex; viewing lens f/3.5.

Shutter: Alphax, 1/10 to 1/200 sec., plus B & T.

Flash Sync: None. Same as Model E. Special Features: Metal body. Other features same as Model E.

Last List Price: \$64.40



Last Reported Used Selling Price Range in 1956: \$29-\$38 Serial Numbers: 10,439 to 13,591



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Special Identification Points: 1. Has metal body: 2. No factory installed sync.

ARGOFLEX MODEL EF

Introduced: 1948 Discontinued: 1951 Lens: Factory coated 75mm, f/4.5 Varex; viewing lens f/3.5.

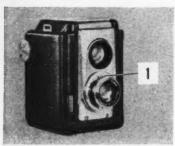
Shutter: Alphax, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Factory installed. M up to 1/25, F-type bulbs (SM, SF) at all speeds.



Special Features: Same as Model EM. Last List Price: \$58.74 Last Reported Used Selling Price Range in 1956: \$24.\$35 Serial Numbers: 2,506 to 30,520 Special Identification Points: 1. Factory installed sync (flash contact is on left side of camera).

ARGUS MODEL 40



Introduced: 1950 (Currently in production)

Lens: Factory coated 75mm, f/4.5 Varex.

Shutter: Between-the-lens, 1/25 to 1/150 sec., plus B.

Flash Sync: Same as Model EF, above. Special Features: Plastic body: factory installed sync; double exposure prevention; brilliant viewfinder; body shutter release; focusing lens mount; special shutter speed, lens, and distance settings color-coded for fixed-focus shooting of pictures under average conditions.

Last List Price: \$37.95

Last Reported Used Selling Price Range in 1956: \$15-\$23

Serial Numbers: None. Bears stamped date of manufacture (1st two digitsyear; last two digits-month).

Special Identification Points: 1. Focusing lens mount.

CIRO-FLEX

Manufacturer: Ciro Cameras, Inc. Note: This camera is no longer manu-

Film: All models take 12 pictures on 120 roll film.

CIRO-FLEX MODEL B

factured.

Introduced: 1940 Discontinued: 1952 Lens: 85mm, f/3.5 Wollensak (Early version came with uncoated lens; later version had factory coated lens).

Shutter: Alphax, 1/10 to 1/200 sec., plus B and T.



Flash Sync: None. Add Type 1 (X sync). See page 69.

Special Features: Built-in magnifier: sports finder; built-in depth of field scale.

Last List Price: With coated lens, \$75.60

Last Reported Used Selling Price Range in 1956: \$20-\$36

Special Identification Points: 1. No factory installed sync; 2. Alphax, instead of Rapax shutter as in C, E, and F.

Note: Early version came without field lens in ground glass focusing screen; later version came with field lens.

CIRO-FLEX MODEL C

Introduced: 1946 Discontinued: 1952 Lens: Factory coated 85mm, f/3.5 Wollensak.

Shutter: Rapax, 1 to 1/400 sec., plus B and T.

Flash Sync: None. Same as Model B. Special Features: Built-in magnifier;

sports finder; built-in depth of field scale.

Last List Price: \$97.65

Last Reported Used Selling Price Range in 1956: \$33-\$40

Special Identification Points: 1. No factory installed sync; 2. Rapax, instead of Alphax shutter as in B and D models.

Note: Early version came without field lens in ground glass focusing screen; later version came with field lens.

CIRO-FLEX MODEL D

Introduced: 1948 Discontinued: 1952 Note: This camera is same as Model B, except for flash sync.

Flash Sync: Factory installed. M up to 1/25, F-type bulbs at all speeds. No X. Can change to Type 1 (X sync). See page 69.

Last List Price: \$87.90

Last Reported Used Selling Price Range in 1956: \$28-\$47

CIRO-FLEX MODEL E

Introduced: 1948 Discontinued: 1952
Lens: Factory coated 85mm, f/3.5
Wollensak.

Shutter: Rapax, 1 to 1/400 sec., plus B and T.

Flash Sync: Factory installed. Same as Model D except for flash sync.

Special Features: Same as Model C. Last List Price: \$117.55

Last Reported Used Selling Price Range in 1956: \$44-\$59



Special Identification Points: 1. Factory installed sync; 2. Rapax, instead of Alphax shutter as in B and D; 3. 85mm, f/3.5 lens, instead of 83mm, f/3.2.

Note: Early version came without field lens in ground glass focusing screen; later version came with field lens.

CIRO-FLEX MODEL F

Introduced: 1949 Discontinued: 1952Lens: Factory coated 83mm, f/3.2Wollensak Raptar.

Shutter: Full Synchromatic Rapax, 1 to 1/400 sec., plus B and T.



Flash Sync: Factory installed. M, F, and X at all speeds with adjustable time delay.

Last List Price: \$148.75

Last Reported Used Selling Price Range in 1956: \$56-\$80

EXAKTA

Manufacturer: Ihagee Kamerawerk A.G., Dresden, Germany Importer: Exakta Camera Co., 705

Bronx River Road, Bronxville 8, N. Y.

VEST POCKET EXAKTAS

The following four cameras are known as the Vest Pocket Exaktas. Film Size: All models take 8 pictures 2½ x 15% in. on 127 film.

Lens: All models except Exakta Junior incorporate threaded lens mounts for interchangeability of lenses. Lenses for the V. P. Exaktas were supplied without focusing mounts since the camera lens-mount has a built-in helical focusing mount. Standard lens was 75mm, f/3.5 Zeiss Tessar or Schneider Xenar, 75mm, f/2.8 Tessar or Xenar, 80mm, f/2 Biotar or Xenon, or 75mm, f/3.5 Exaktar or Ihagee.

Flash Sync: Type 1 (X sync) can be added to any Exakta listed which does not have this type. See page 69 for details.

EXAKTA MODEL A

Note: This model is the same as Exakta Model B below, except for the shutter. Model A had shutter speeds only from 1/25 to 1/1000 sec., plus B & T, and had no delayed action. Introduced: 1936 Discontinued: 1945

Flash Sync: Same as Model B, below, except for a few from earliest production which had none. Type 1 (X sync) and/or Type 2 (with FP bulbs) can be added to these.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: With f/3.5 Tessar, \$34-\$50

Special Identification Points: 1. Was supplied only in black enamel fin-

ish; 2. No delayed action; 3. No slow-speed dial.

EXAKTA MODEL B

Introduced: 1937 Discontinued: 1945 Shutter: Focal plane, 12 to 1/1000 sec., plus B & T and delayed action (works with speeds from 6 to 1/1000).

Flash Sync: Factory installed, for FP bulbs; also M up to 1/25

Special Features: Film transport and shutter winding connected; sports finder; eye-level focusing; built-in magnifier.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: With f/2 Biotar, \$76-\$96



Special Identification Points: 1. Early version had film transport knob; later version had film transport lever; 2. Early version came only in black enamel finish; later version was supplied with chrome finish.

EXAKTA JUNIOR

Introduced: 1936 Discontinued: 1945 Lens: 75mm, f/4.5 Anastigmat.

Shutter: Focal plane, 1/25 to 1/1000 sec., plus B & T (no delayed action). Flash Sync: Same as Model B.

Special Features: Other features same as Exakta Model A, but did not have interchangeable lens mount.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: With f/3.5 Ihagee, \$21.\$35

EXAKTA MODEL C

Note: This model is the same as Exakta Model B, with the addition of a plate back adapter, for using plates or cut film with rear ground glass focusing. When the plate back is used, the reflex finder cannot be used for focusing or viewfinding.

Introduced: 1937 Discontinued: 1945 Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: With f/2.8 Tessar, \$43,\$64

Special Identification Points: 1. Only V. P. Exakta with provision for using plate back.

"SQUARE" EXAKTA

Note: This camera has the same shape as Exakta A, B, etc., but is considerably larger.

Introduced: 1937 Discontinued: 1938 Film Size: 12 pictures 21/4 x 21/4 on 120 film.

Lens: Interchangeable; bayonet mount. Standard lenses were 80mm, f/3.5 Zeiss Tessar or 85mm, f/3.5 Ihagee Anastigmat. Note: This camera was introduced just prior to the war; therefore no auxiliary lenses or special attachments have ever been supplied for it.

Shutter: Focal plane, 12 to 1/1000 sec., plus B & T and self-timer (works with speeds from 6 to 1/1000).

Flash Sync: Same as Model B.

Special Features: Coupled film transport and shutter wind; sports finder; factory installed flash sync; exposure counter.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: With f/2.8 Tessar, \$79-\$92

Special Identification Points: 1. Film transport lever situated on bottom of camera; 2. Same shape as previous Exaktas, but considerably larger.

EXAKTA 66

Introduced: 1954 (Currently in production)



Film Size: 12 pictures 21/4 x 21/4 on 120 film.

Lens: Interchangeable; bayonet mount. Standard lens is factory coated 80mm, f/2.8 Zeiss Tessar with pre-set diaphragm and built-in lens hood. Accessory lenses are available in focal lengths from 56mm to 400mm

Shutter: Focal plane, 12 to 1/1000 sec., plus B & T and self-timer (works with speeds from 6 to 1/1000 sec.).

Flash Sync: Factory installed. Time delay adjustable 0 to 20 milliseconds. X type up to 1/50, FP bulbs at all speeds.

Special Features: Coupled film transport and shutter cocking; removable back with indentation for finger-hold; sports finder; removable reflex finder hood (accessory prismatic eye-level focusing finder replaces hood; will be available in near future).

Last List Price: With 80mm, f/2.8 Tessar (pre-set diaphragm), \$319.50 Last Reported Used Selling Price Range in 1956: With f/2.8 Tessar,

\$175-\$213

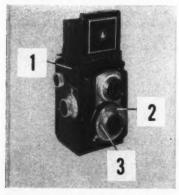
Special Identification Points: 1. Easily distinguishable from previous Exakta models by square shape; 2. Controls are located on side, instead of top of camera.

GRAFLEX

Manufacturer: Graflex, Inc., 154 Clarissa St., Rochester 8, N. Y.

Film: All models take 12 pictures on 120 film.

GRAFLEX "22" MODEL 200



Introduced: 1952 (Currently in production)

Lens: Factory coated 85mm, f/3.5 Graftar.

Shutter: Century, 1/10 to 1/200 sec., plus B & T.

Flash Sync: Factory installed. M up to 1/25, F to 1/100, X at all speeds.

Special Features: Factory installed MFX sync; built-in magnifier; field lens; built-in depth of field scale; sports finder; self-closing ruby window; shoe contact for flash.

Last List Price: \$74.50

Last Reported Used Selling Price Range in 1956: \$48-\$62

Special Identification Points: 1. Until July, 1953, was supplied only with black metal trim; after July, 1953, came only in bright metal trim; 2. Century shutter; 3. MFX flash sync.

GRAFLEX "22" MODEL 400

Introduced: 1952 (Currently in production)

Note: This model is identical with Model 200, except for the shutter. Model 400 has a Graphex, 1 to 1/400 sec., plus B & T.

Flash Sync: Factory installed. M up to 1/25, F to 1/100, X at all speeds.

Last List Price: \$94.50

Last Reported Used Selling Price Range in 1956: \$59-\$77

Special Identification Points: 1. See # 1 for Model 200.

GRAFLEX "22" MODEL 400F

Introduced: 1952 Discontinued: 1955 Note: This model is identical with Model 400, except for the following differences: 1. Lens is 83mm, f/3.2 Optar: 2. Flash sync is full adjustable.

Flash Sync: Factory installed. M, F, and X at all speeds, with adjustable time delay.

Last List Price: \$156.50

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. See # 1 above.

IKOFLEX

Manufacturer: Zeiss Ikon A.G., Stuttgart, Germany

Importer: Carl Zeiss, Inc., 485 Fifth Avc., New York 17, N. Y.

Film Size: All models take 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film.

IKOFLEX MODEL I (Early version)

Introduced: 1932 Discontinued: 1935 Lens: 75mm, f/4.5 Zeiss Novar.

Shutter: Derval, 1/25 and 1/100 sec., plus B & T.

Flash Sync: None. Add Type 1 (X sync) only. See page 69.

Special Features: Built-in magnifier. Last List Price. \$36

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Lever focusing, instead of knob focusing as in 1938 version; 2. Only Ikoflex model supplied with f/4.5 lens.

IKOFLEX MODEL I (1938 version)

Introduced: 1938 Discontinued: 1950 Lens: 75mm, f/3.5 Zeiss Novar, or factory coated 75mm, f/3.5 Zeiss Tessar; viewing lens f/3.5.

Shutter: Until 1939, came with Compur, 1 to 1/300 sec., plus B; after 1939 came with Klio, 1 to 1/250 sec.,

plus B.

Flash Sync: None. With Klio shutter, add Type 1 (X sync) only; with Compur, add Type 1 or 2 (M bulbs). See page 69

Special Features: Built-in magnifier;

parallax correction; double exposure prevention; built-in depth of field scale; body shutter release.

Last List Price: With Compur shutter and Novar lens, \$72; with Klio shut-



ter and Novar lens, \$99; with Klio shutter and Tessar lens, \$120

Last Reported Used Selling Price Range in 1956: With f/3.5 Tessar, \$30-\$49

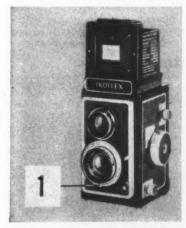
Special Identification Points: 1. Knob focusing, instead of lever focusing as in earlier version; 2. Compur or Klio shutter.

IKOFLEX MODEL la

Introduced: 1952 Discontinued: 1956 Lens: Factory coated 75mm, f/3.5 Novar or Tessar; viewing lens f/3.5.

Shutter: Prontor SV, 1 to 1/300 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.



Special Features: "Extrabrite" focusing screen; sports finder; magnifier; automatic exposure counter; automatic film stop; body shutter release; double exposure prevention.

Last List Price: With Novar lens, \$76; with Tessar, \$96

Last Reported Used Selling Price

Range in 1956: With f/3.5 Tessar, \$49.566

Special Identification Points: 1 Supplied with Prontor shutter; 2. Does not have folding shutter release, as in Model Ib.

IKOFLEX MODEL Ib

Note: This is an improved version of the earlier Ikoflex Ia. Differences are: Anti-reflection baffling in interior; magnifying lenses on shutterspeed and diaphragm windows; focusing hood opens and closes in single action; folding body shutter release; Prontor SVS, instead of SV shutter.



Introduced: 1956 (Currently in production)

Flash Sync: Factory installed. Same as Ikoflex Ia.

Last List Price: With Novar lens, \$99; with Tessar, \$119

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Differentiated from Ikoflex Ia by having folding shutter release; 2. Differentiated from Ikoflex Ic by not having built-in exposure meter.

IKOFLEX MODEL Ic

Note: This model is the same as Ikoflex Ib, but has a built-in photoelectric exposure meter.



Introduced: 1956 (Currently in production)

Last List Price: With Novar lens, \$126; with Tessar, \$146

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Builtin exposure meter.

IKOFLEX MODEL II

Introduced: 1937 Discontinued: 1939 Lens: 75mm, f/3.5 Zeiss Tessar; viewing lens f/3.5.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

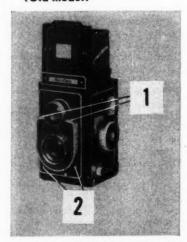
Flash Sync: None. Same as Model I. Special Features: Built-in magnifier; automatic film counter; automatic film stop; sports finder; double exposure prevention.

Last List Price: \$116

Last Reported Used Selling Price Range in 1956: \$47-\$64

Special Identification Points: 1. Early version had lever focusing; later version had knob focusing; 2. Exposure counter; 3. F/3.5 Tessar lens.

(Old model)



Introduced: 1950 Discontinued: 1952 Lens: Factory coated 75mm, f/3.5 Tessar; viewing lens f/3.5.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, X.

Special Features: Exposure counter; condenser lens under ground glass; automatic film stop; sports finder; double exposure prevention; built-in magnifier; body shutter release.

Last List Price: \$164

· Last Reported Used Selling Price Range in 1956: \$60-\$80

Special Identification Points: 1. Peep windows on each side of viewing lens; 2. F/stops and shutter speeds set by levers, instead of knurled wheels, as in later version.

(Latest model)



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Introduced: 1953 (Currently in production)

Lens: Factory coated 75mm, f/3.5 Tessar; viewing lens f/3.5.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, M & X. Special Features: "Extrabrite" focusing screen; film transport coupled to shutter cocking; exposure counter; knurled wheels for setting f/stops and shutter speeds; sports finder; built-in magnifier; body shutter release.

Last List Price: \$126

Last Reported Used Selling Price Range in 1956: \$73-\$94

Special Identification Points: 1. Peep window located over viewing lens mount; 2. Knurled wheels located at sides of lens mount.

IKOFLEX MODEL III

Introduced: 1939 Discontinued: 1940 Lens: 80mm, f/2.8 Zeiss Tessar; viewing lens f/2.8.

Shutter: Compur Rapid, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: None. Same as Model I.



Special Features: Built-in magnifier, parallax correction; built-in Albada sports finder; lever crank film transport coupled to shutter cocking; exposure counter; body shutter release. Last List Price: \$219

Last Reported Used Selling Price Range in 1956: \$68-\$84

Special Identification Points: 1. Only Ikoflex model with film transport crank lever; 2. Only Ikoflex model supplied with Albada sports finder; 3. Made only with f/2.8 lens.

MINOLTA

Manufacturer: Chiyoda Kogaku Seiko Co., Ltd., Osaka, Japan

Importer: Chiyoda Kogaku Seiko Co., Ltd., 150 Broadway, New York 38, N. Y.

Film Size: All models take 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film.

MINOLTACORD

Introduced: 1954 (Currently in production)

Lens: Factory coated 75mm, f/3.5 Promar SIII.

Shutter: Optiper MXS, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Lever-operated film transport; automatic film stop; lever focusing: automatic film counter; built-in magnifier; sports finder;



body shutter release; accessory shoe. Last List Price: \$69.50

Last Reported Used Selling Price Range in 1956: \$39-\$49

Special Identification Points: 1. Shutter-cocking lever; 2. Promar, instead of Rokkor lens, as in Minolta Autocord.

MINOLTA AUTOCORD MODEL I-O

Introduced: 1955 Discontinued: 1956 Lens: Factory coated 75mm, f/3.5 Rokkor.

Shutter: Optiper MXS, 1 to 1/400, plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Film transport coupled to shutter cocking (double ex-



posure prevention); provision for intentional double exposure. Other features same as Minoltacord.

Last List Price: \$99.50

Last Reported Used Selling Price Range in 1956: \$56-\$70

Special Identification Points: 1. Differentiated from Minolta Autocord Models I-S and L by having Optiper instead of Seikosha shutter; 2. No light value scale.

MINOLTA AUTOCORD MODEL I-S

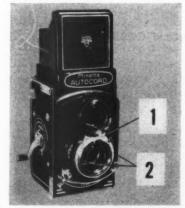
Introduced: 1956 (Currently in production)

Lens: Factory coated 75mm, f/3.5 Rokkor.

Shutter: Seikosha MFX, 1 to 1/500, plus B and self-timer.

Flash Sync: Factory installed, M, F, and X.

Special Features: Shutter incorporates light value scale cross-coupled to lens diaphragm (scale is indicated on each side of lens mount); con-



denser lens under ground glass; shutter-set signal. Other features same as Minolta Autocord Model I-O.

Last List Price: \$99.50

Last Reported Used Selling Price Range in 1956. Not available. Special Identification Points: 1. Differentiated from Minolta Autocord I-O by having Seikosha, instead of Optiper shutter; 2. Further differentiated by having light value scale.

MINOLTA AUTOCORD MODEL L

Note: This camera is the same as Minolta Autocord Model I-S, but has a built-in photoelectric exposure meter.

Introduced: 1956 (Currently in production)

Last List Price: \$124.50



Last Reported Used Selling Price Range in 1956: Not available. Special Identification Points: 1. Builtin exposure meter.

ROLLEICORD

Manufacturer: Franke & Heidecke, Braunschweig, Germany

Importer: Burleigh Brooks, Inc., 10 W. 46 St., New York 36, N. Y.

Film size: All models of Rolleicord take 12 pictures 21/4 x 21/4 on 120 film.

ROLLEICORD MODEL I

Introduced: 1933 Discontinued: 1935 Lens: 75mm, f/4.5 Zeiss Triotar; viewing lens f/3.2. Note: Version introduced in 1934 had f/3.8 Triotar taking lens.

Shutter: Compur, 1 to 1/300 sec., plus B & T.

Flash Sync: None. Add Type 1 (X sync). See page 69

Special Features: Exposure counter (1st exposure must be set in red window); sports finder; built-in magnifier.

Last List Price: \$57.50

Last Reported Used Selling Price Range in 1956: With f/4.5 Triotar, \$21-\$36

Serial Numbers: None.

Special Identification Points: 1. Before 1934, came only with all nickel



plated body; after 1934, was supplied only with leather-covered body; 2. No automatic film stop; 3. Only Rolleicord with exposure counter on left side of camera.

ROLLEICORD IA

Introduced: 1935 Discontinued: 1941 Lens: 75mm, f/4.5 or f/3.8 Zeiss Triotar; viewing lens f/3.2.

Shutter: Compur, 1 to 1/300 sec., plus B & T.

Flash Sync: None. Add Type 1 (X sync). See page 69

Special Features: Accepts plate and 35mm film adapters. Other features



same as Rolleicord Model 1, 1934 version.

Last List Price: \$91

Last Reported Used Selling Price Range in 1956: With f/3.8 Triotar, \$30-\$43

Special Identification Points: 1. Automatic film stop; 2. Rim-set shutter (no peep windows).

ROLLEICORD II

Introduced: 1938 Discontinued: 1951 Lens: 75mm, f/3.5 Zeiss Triotar; viewing lens f/3.2. Note: Version introduced in 1950 had factory coated f/3.5 Zeiss Triotar or Schneider Xenar lens. Shutter: Compur, 1 to 1/300 sec., plus B & T. Note: Version introduced in 1945 had Compur-Rapid shutter, 1 to 1/500 sec., plus B; version introduced in 1950 had same shutter and factory installed flash sync.

Flash Sync: Factory installed, X.

Special Features: Bayonet mount for lens accessories (early versions had bayonet mount on taking lens only, later versions on both viewing and taking lenses); eye-level focusing. Other features same as Model IA.

Last List Price: With uncoated Triotar f/3.5 lens and either Compur or Compur-Rapid shutter, \$118; with coated Triotar lens in flash sync

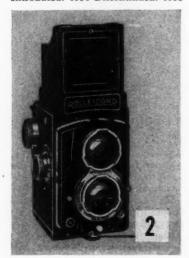


Compur-Rapid, \$140; with coated Xenar lens in flash sync Compur-Rapid, \$160

Last Reported Used Selling Price Range in 1956: With f/3.5 Triotar, \$34-\$51

Serial Numbers: 1,000,000 to 1,124,000 Special Identification Points: 1. Eye level focusing; 2. Film window; 3. From 1939 to 1950, came without factory-installed flash sync.

ROLLEICORD III Introduced: 1950 Discontinued: 1953



Lens: Factory coated 75mm. f/3.5 Zeiss Triotar or Schneider Xenar; viewing lens f/3.2

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, X.

Special Features: Built-in magnifier covering entire ground glass image; automatic film feeding (not necessary to set 1st exposure in red window, which is eliminated). Other features same as Model II.

Last List Price: With Triotar lens, \$139.50; with Xenar, \$149.50

Last Reported Used Selling Price Range in 1956: With f/3.5 Xenar, \$52-\$86

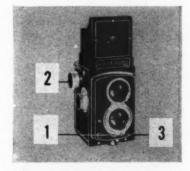
Serial Numbers: 1,137,000 to 1,344,050 Special Identification Points: 1. First Rolleicord without film window; 2. Back latch has safety lock.

ROLLEICORD IV

Introduced: 1953 Discontinued: Jan., 1955

Lens: Factory coated 75mm, f/8.5 Schneider Xenar; viewing lens f/8.2 Shutter: Synchro-Compur, 1 to 1/500 sec., plus B.

Flash Sync: Factory installed, M & X. Special Features: Double and blank exposure prevention; provision for intentional double exposures; anti-



reflection baffling in interior. Other features same as Model III.

Last List Price: \$149.50 (incl. case). Last Reported Used Selling Price Range in 1956: \$67-\$99

Serial Numbers: From 1,344,051 Special Identification Points: 1. First

Rolleicord with MX selection lever; 2. No release button in film transport knob; 3. Cable release socket positioned beneath taking lens.

ROLLEICORD V

Introduced: January, 1955 (Currently in production)

Lens: Factory coated 75mm, f/8.5 Schneider Xenar; viewing lens f/8.2 Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Shutter incorporates Light Value Scale cross-coupled to lens diaphragm (as shutter speeds are changed, lens opening changes correspondingly, thus keeping relative exposures constant); factory installed flash sync; double and blank exposure prevention with provision for making intentional double exposures; large focusing knob with built-in film speed indicator; builtin depth of field scale; 2.5 times viewing magnifier; sports finder; automatic parallax compensation; automatic exposure counter; Light Value table on back of camera; film positions for correct starting before closing back; single lever for cocking and releasing shutter; focuses from 3 ft. to infinity with one revo-



lution of focusing knob; lock for flash contact.

Last List Price: \$149.50 (incl. case)
Last Reported Used Selling Price
Range in 1956: \$79-\$114

Special Identification Points: 1. MXV selector lever (V is self-timer position); 2. Built-in film-speed indicator; 3. Light Value Scale; 4. Lever for releasing flash contact lock.

ROLLEIFLEX

Manufacturer: Franke & Heidecke, Braunschweig, Germany

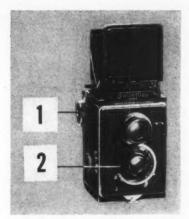
Importer: Burleigh Brooks, Inc., 10 W. 46th St., New York 36, N. Y.

Film Size: All 6 x 6cm Rolleiflex cameras except Original Rolleiflex take 12 pictures 2½ x 2½ on 120 film. Note: A few over-sized cameras taking 9 x 9cm pictures on 122 film were made. There were also two 4 x 4cm models.

Flash Sync: Type 1 (X sync) can be added to any non-sync Rolleiflex. See page 69 for details.

ROLLEIFLEX, ORIGINAL MODEL

Introduced: 1929 Discontinued: 1932 Film Size: 6 pictures 21/4 x 21/4 on B1 (117) film (some were converted to take 12 pictures on 620 film).



Lens: 75mm, f/4.5 Zeiss Tessar; viewing lens f/3.1. Note: Version B introduced in April, 1929 had 75mm, f/3.8 Tessar taking lens.

Shutter: Compur, 1 to 1/300 sec., plus B & T.

Flash Sync: None. See note above. Special Features: Eye-level focusing; built-in magnifier.

Last List Price: With f/4.5 Tessar, \$75; with f/3.8 Tessar, \$85

Last Reported Used Selling Price Range in 1956: With f/3.8 Tessar, \$20-\$39

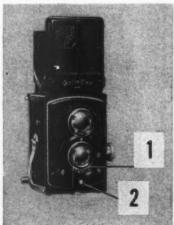
Serial Numbers: To 200,000

Special Identification Points: 1. Made only with film winding knob, instead of lever crank; 2. Made only with rim-set shutter (no peep window); 3. Only Rolleiflex model without film counter (red window must be used).

ROLLEIFLEX STANDARD (Old)

Introduced: 1932 Discontinued: 1937 Lens: 75mm, f/4.5 or f/3.8 Zeiss Tessar; viewing lens f/3.1

Shutter: Compur, 1 to 1/300 sec., plus



B & T. Note: Version introduced in 1934 had Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Rolleiflex section.

Special Features: Parallax correction; built-in sports finder; lever crank film transport; exposure counter (1st exposure must be set in red window); built-in magnifier; peep windows for lens stops and shutter speed settings; accepts plate or 35mm adapters, other accessories.

Last List Price: With f/4.5 or f/3.8 Tessar, \$125

Last Reported Used Selling Price Range in 1956: With f/3.8 Tessar, \$22-\$43

Serial Numbers: 200,000 to 567,550

Special Identification Points: 1. Made only with lens mount accepting push-on accessories; 2. Only 6 x 6cm Rolleiflex with single lever for tensioning and releasing shutter; 3. Only 6 x 6cm Rolleiflex with 2 film windows.

ROLLEIFLEX AUTOMAT 1937

Introduced: 1937 Discontinued: 1949 Lens: 75mm, f/3.5 Zeiss Tessar. Note: Version introduced in 1945 came with either Tessar or Schneider Xenar f/3.5 lens. Viewing lens (all versions) f/2.8

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T and self-timer.

Flash Sync: None. See note, beginning of Rolleiflex section.



Special Features: Eye-level focusing; film transport coupled to shutter cocking (double exposure prevention); automatic film feeding (not necessary to set 1st exposure in red window, which is eliminated); knurled wheels for setting lens stops and shutter speeds; body shutter release; built-in magnifier; parallax correction; peep windows for lens stops and shutter speed settings.

Last List Price: With Xenar lens, \$220; with Tessar, \$250

Last Reported Used Selling Price Range in 1956: With f/3.5 Tessar, \$70-\$86

Serial Numbers: 480,000 to 1,000,000 Special Identification Points: 1. From 1937 to 1939, made with bayonet mount on taking lens only; after 1939, made with bayonet mounts on both viewing and taking lenses: 2. Only Rolleiflex Automat with B and T shutter settings; 3. Only Rolleiflex Automat lacking sports finder.

ROLLEIFLEX STANDARD (New)



Introduced: 1939 Discontinued: 1941 Lens: 75mm, f/3.5 Zeiss Tessar; viewing lens f/3.1

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B. (No T or self-timer)

Flash Sync: None. See note, beginning of Rolleiflex section.

Special Features: Film transport coupled with shutter cocking (1st exposure must be set in red window). Other features same as Automat 1937.

Last List Price: \$185

Last Reported Used Selling Price Range in 1956: \$38-\$51

Serial Numbers: 805,000 to 927,999
Special Identification Points: 1. Lens stops and shutter speeds set by levers, instead of knurled wheels; 2. No self-timer.

ROLLEIFLEX AUTOMAT 1949

Introduced: 1949 Discontinued: 1951 Lens: Factory coated 75mm, f/3.5 Zeiss Tessar or Schneider Xenar. Viewing lens f/2.8. Note: Factory coated lenses have following marks engraved on lens mount; Zeiss: "T"; Schneider: △ in red.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, X. Special Features: Sports finder. Other



features same as Automat 1939. Last List Price: With Xenar lens, \$235; with Tessar, \$275

Last Reported Used Selling Price Range in 1956: With f/3.5 Tessar, \$110-\$129

Serial Numbers: 1,100,000 to 1,168,000 Special Identification Points: 1. Made only with X type sync (no lever for selecting M or X type sync).

ROLLEIFLEX AUTOMAT 1951

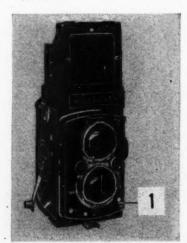
Introduced: 1951 Discontinued: 1954 Lens: Factory coated 75mm, f/3.5 Tessar or Xenar; viewing lens f/2.8

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Built-in magnifier showing entire ground glass image. Other features same as Automat 1949.

Last List Price: With Xenar lens, \$219.50; with Tessar, \$239.50

Last Reported Used Selling Price Range in 1956: With f/3.5 Tessar, \$115-\$139



Serial Numbers: From 1,100,000 to 1,427,999

Special Identification Points: 1. Lever for selecting M or X type sync.

ROLLEIFLEX AUTOMAT f/2.8

Introduced: 1950 Discontinued: 1953 Lens: Factory coated 80mm, f/2.8 Zeiss Tessar; viewing lens f/2.8. Note: B version with 5-element 80mm, f/2.8 Zeiss Biometar lens may occasionally be found.

Shutter: Compur-Rapid, 1 to 1/400 or 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed. Early ones had X only; late version had M and X. See Serial numbers, below.

Special Features: Same as Automat 1949

Last List Price: With X-type sync, \$325; with MX sync, \$345

Last Reported Used Selling Price Range in 1956: With X shutter, \$126-\$166

Serial Numbers: From 1,101,000, X sync: from 1,201,000, MX sync.

Special Identification Points: 1. Only Rolleiflex supplied with Zeiss Tessar f/2.8 lens; 2. Has larger diame-



ter lens bayonet mount requiring special size lens accessories.

ROLLEIFLEX AUTOMAT f/2.8C

Introduced: 1953 (Currently in production)

Lens: Factory coated 5-element 80mm, f/2.8 Schneider Xenotar or Zeiss Planar; viewing lens f/2.8.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Provision for intentional double exposures; built-in film speed and film type indicator in focusing knob; safety locks on flash outlet and on lens stop and shutter speed wheels; built-in 35mm exposure counter; adjustable magnifier; lever-locking tripod base:

safety film knobs; ribbed baffled interior for protecting film against internal reflections. Other features same as latest Automat f/2.8.

Last List Price: \$309.50 (including case).

Last Reported Used Selling Price Range in 1956: \$173-\$209



Special Identification Points: 1. Only Rolleiflex supplied with Xenotar or Planar lens; 2. Only Rolleiflex supplied with built-in 35mm exposure counter.

ROLLEIFLEX AUTOMAT 1954

Introduced: 1954 (Currently in production)

Lens: Factory coated 75mm, f/3.5 Schneider Xenar or Zeiss Tessar; viewing lens f/2.8.

Shutter: Synchro-Compur "Light Value System," 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X.

Special Features: Shutter incorporates

Light Value Scale cross-coupled to

lens diaphragm (as shutter speeds

are changed, lens opening changes
correspondingly, thus keeping relative exposure constant); shutter
cocking and self-timer tensioning
coupled to film transport; double
and blank exposure prevention with
provision for making intentional
double exposures; exposure table
with "Light Values" on back of cam-



era; body shutter-release with safety lock; extra large focusing knob with built-in film-type indicator; eyelevel focusing; built-in magnifier; sports finder; built-in feeler mechanism for easy film loading; self-locking safety hinge on camera back; automatic exposure counter; lever-crank film transport.

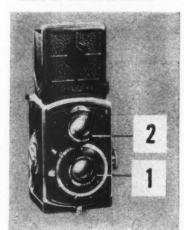
Last List Price: With 75mm, f/3.5 Xenar, \$234.50; with 75mm, f/3.5 Tessar, \$249.50 (prices include

Last Reported Used Selling Price Range in 1956: With f/3.5 Xenar, \$149-\$165

Serial Numbers: From 1,428,000 Special Identification Points: 1. Light Value Scale; 2. Extra large focusing knob with film-type indicator.

ROLLEIFLEX SPORTS MODEL,

Introduced: 1931 Discontinued: 1938 Note: First few models were called "Babyflex." This camera is often called the 4 x 4cm Rolleiflex.



Film Size: Takes 12 pictures 15/8 x 15/8 on 127 film.

Lens: 60mm, f/3.5 or f/2.8 Zeiss Tessar. Viewing lens f/2.8. Note: After 1934, was supplied only with f/2.8 Tessar taking lens.

Shutter: Compur, 1 to 1/300 sec., B & T. Note: Version introduced in 1934 had Compur-Rapid shutter, 1 to 1/500 sec., plus B & T.

Flash Sync: None. See note, beginning of Rolleiflex section.

Special Features: Sports finder; film transport by lever crank; built-in magnifier; exposure counter (1st exposure must be set in red window).

Last List Price: With f/3.5 lens, \$106.50; with f/2.8 lens, \$122

Last Reported Used Selling Price Range in 1956: With f/3.5 Tessar, \$29.\$42

Serial Numbers: 200,000 to 600,000

Special Identification Points: 1. From 1931 to 1933, came only with rim-set shutter; after 1933, had peep windows, and levers for setting lens stops and shutter speeds; 2. Made only with lens mount accepting push-on accessories.

ROLLEIFLEX SPORTS MODEL, 1938



Introduced: 1938 Discontinued: 1941 Film size: Takes 12 pictures 15% x 15% on 127 film.

Lens: 60mm, f/2.8 Zeiss Tessar; viewing lens f/2.8.

Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T.

Flash Sync: None. See note, beginning of Rolleiflex section.

Special Features: Taking lens accepts bayonet mount accessories. Other features same as Sports Rolleiflex 1934.

Last List Price: \$148.50

Last Reported Used Selling Price Range in 1956: \$55-\$70

Serial Numbers: 600,000 to 800,000 Special Identification Points: 1. Bayonet mount on taking lens.



FOLDING ROLL FILM CAMERAS

MANY PEOPLE WILL INSIST that the folding camera has had its day. Although its popularity has declined in recent years, a few new types are currently being manufactured. Fast lenses, built-in exposure meters, versatile shutters, unequalled compactness for its negative size—all these make the modern folding camera a formidable picture taker. Even among the old models in camera stores you can find folding cameras which are of the very highest quality at moderate prices. Essential information about these can be found only in this Camera Buying Guide.

POLAROID LAND

Manufacturer: Polaroid Corp., 730
Main St., Cambridge 39, Mass.
All models are designed to produce finished prints approximately one minute after making the exposure on Polaroid Land film.

POLAROID LAND MODEL 95

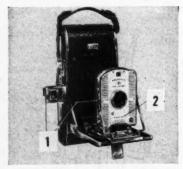
Introduced: 1948 Discontinued: 1954
Film Size: 8 pictures 31/4 x 41/4.
Lens: Factory coated triplet, with effective range from f/11 to f/45.
Shutter: Polaroid, with speeds of 1/8, 1/15, 1/30 and 1/60 sec., plus B.

Flash Sync: Factory installed, M.
Special Features: A single exposure control dial, numbered from 1 to 8, takes the place of conventional lens and shutter calibrations. Since the lens and shutter controls are coupled, each exposure number represents a specific lens opening-shutter speed combination. Other features: Optical eye-level viewfinder; focusing by lever which moves entire shutter-lens housing on track; accessory shoe.

Last List Price: \$89.75

Last Reported Used Selling Price Range in 1956: \$38-\$59

Special Identification Points: 1. Only Polaroid Land model with "ball and



mast" sighting point for viewfinder; 2. "Model 95" engraved on lensboard; 3. Differentiated from later Model 95A by not having sync for electronic flash.

POLAROID LAND SPEEDLINER (Model 95A)

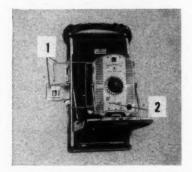
Introduced: 1954 (Currently in production)

Film Size: 8 pictures $3\frac{1}{4} \times 4\frac{1}{4}$.

Lens: Factory coated triplet, with effective range from f/8.8 to f/35.

Shutter: Polaroid, with speeds of 1/12, 1/25, 1/50 and 1/100 sec., plus B. Flash Sync: Factory installed, M & X. Special Features: As in Model 95, a single exposure control dial, numbered from 1 to 8, takes the place of

bered from 1 to 8, takes the place of conventional lens and shutter calibrations. Other features: Combination optical and wire frame viewfinder; negative roll drops into



place in camera, instead of having to be clipped in; film release is red toggle switch instead of button as in Model 95. Other features same as Model 95.

Last List Price: \$89.75

Last Reported Used Selling Price Range in 1956: \$47-\$59

Special Identification Points: 1. Differentiated from Model 95 by having combination optical and wire frame viewfinder; 2. Has additional connection for electronic flash; 3. "Model 95A" engraved on lensboard.

POLAROID LAND MODEL 100

This model is basically similar to the Speedliner (Model 95A), but has been modified slightly for heavy duty business and industrial use. Lens and shutter are specially selected for sharpness and accuracy. Introduced: 1954 (Currently in pro-

duction)

Special Features: Permanently lubricated spreader-roller bearings; extra-strong stainless steel tripod sockets. Other features same as Model 95A.

Last List Price: \$97.75

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1.

"Model one hundred" engraved on lensboard.

POLAROID LAND MODEL 700



Note: This model is basically similar to the Speedliner (Model 95A), but has a non-coupled, coincidence type rangefinder. Other differences are: Specially selected shutter and permanently lubricated bearings for the steel rollers.

Introduced: 1955 (Currently in production)

Last List Price: \$125

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Builtin, non-coupled rangefinder; 2. "The 700" engraved on front of shutter housing.

POLAROID LAND HIGH-LANDER (Model 80)

Introduced: 1954 (Currently in production)

Film Size: 8 pictures 23/4 x 31/9.

Lens: Factory coated triplet, with effective range from f/8.8 to f/50, focused by turning front element.

Shutter: Polaroid, with speeds of 1/25

and 1/100 sec., plus B.

Flash Sync: Factory installed, M. Special Features: As in Models 95 and 95A, a single exposure control dial takes the place of conventional lens and shutter calibrations; however, in Model 80, the dial is numbered from 2 to 9, instead of 1 to 8. Other features: Flash connection is made by clipping flashgun directly onto

top of camera; enclosed optical



viewfinder; accessory shoe; self erecting bed.

Last List Price: \$69.95

Last Reported Used Selling Price Range in 1956: \$36-\$46

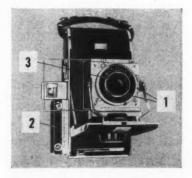
Special Identification Points: 1. Camera is much smaller than other models; 2. Takes 23/4 x 31/2 pictures; 3. Has enclosed, instead of frame-type, optical viewfinder; 4. Exposure dial numbered from 2 to 9; 5. "Model 80" engraved on front folding support.

POLAROID LAND PATHFINDER (Model 110)

Introduced: 1952 (Currently in production)

Film Size: 8 pictures 31/4 x 41/4.

Lens: Factory coated 127mm, f/4.5 Wollensak Raptar, calibrated in conventional manner.



Shutter: Rapax II, 1 to 1/400 sec., plus B & T, calibrated in conventional manner.

Flash Sync: Factory installed, M & X. Special Features: Coupled range-finder; depth of field scale; parallax correction; accessory shoe; built-in exposure calculator matches readings of GE-Polaroid exposure meter; extra large focusing knob.

Last List Price: \$249.50

Last Reported Used Selling Price Range in 1956: \$147-\$164

Special Identification Points: 1. Conventional f/stops and shutter speed calibrations; 2. Coupled rangefinder; 3. "Pathfinder" engraved on lens plate and focusing knob.

VOIGTLANDER

Manufacturer: Voigtlander A.G., Braunschweig, Germany.

Importer: Willoughbys-Wholesale, 110 W. 32nd St., New York 1, N. Y.

VOIGTLANDER BABY BESSA (Original model)

Film Size: 12 pictures 21/4 x 21/4 on 120 film.

Introduced: 1939 Discontinued: 1940 Lens: 75mm, f/3.5 Voigtar, 75mm, f/4.5 Vaskar, or 75mm, f/3.5 Skopar. Shutter: Prontor 00 or Compur 00, 1 to 1/300 sec.



Flash Sync: None. Add Type 1 (X sync). See page 69

Special Features: Frame-type optical viewfinder; trigger-type shutter release in baseboard; built-in depth of field scale.

Last List Price: With 75mm, f/3.5 Voigtar, \$45; with 75mm, f/4.5 Vaskar, \$55; with 75mm f/3.5 Skopar, \$65

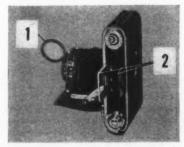
Last Reported Used Selling Price Range in 1956: With f/3.5 Voigtar, \$14-\$27

Special Identification Points: 1. No built-in filter as in later versions.

VOIGTLANDER BABY BESSA (6 x 6 model)

Film Size: 12 pictures 21/4 x 21/4 on 120 film.

Introduced: 1948 Discontinued: 1950



Lens: 75mm, f/3.5 Voigtar or 75mm, f/4.5 Vaskar.

Shutter: Prontor 00, with speeds down

CAMERA BOTTING GOIDE

to 1 sec., plus B & T and self-timer. Flash Sync: None. Add Type 1 (X sync). See page 69

Special Features: Built-in hinged filter.

Other features same as first model.

Last List Price: With 75mm 6/85

Last List Price: With 75mm, f/3.5 Voigtar, \$39.50; with 75mm, f/4.5 Vaskar, \$45.50

Last Reported Used Selling Price Range in 1956: With f/4.5 Vaskar, \$19-\$28

Special Identification Points: 1. Builtin filter; 2. Frame, instead of builtin optical finder as in later versions.

VOIGTLANDER BABY BESSA (1948 model)

Film Size: There are two versions of this model: one takes 12 pictures 21/4 x 21/4 on 120 film; the other takes 16 pictures 15/8 x 21/4 on 120 film.

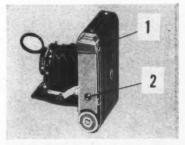
Introduced: 1948 Discontinued: 1950 Lens: 75mm, f/3.5 Voigtar; 75mm, f/4.5 Vaskar; 75mm, f/3.5 Skopar; or 75mm, f/3.5 Heliar.

Shutter: Prontor 00 or Compur 00. Flash Sync: None. Add Type 1 (X sync). See page 69

Special Features: Optical viewfinder; automatic exposure counter. Other features same as 6 x 6 model.

Last List Price: With 75mm, f/3.5 Voigtar, \$39.50; with 75mm, f/4.5 Vaskar, \$45.50

Last Reported Used Selling Price Range in 1956: With f/3.5 Voigtar, \$20-\$27



Special Identification Points: 1. Builtin optical viewfinder; 2. Automatic exposure counter.

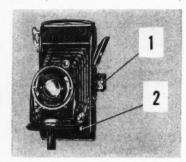
VOIGTLANDER BESSA 6 x 9

Film Size: 8 pictures 2½ x 3½, or 16 pictures 1½ x 2½ on 120 film. Introduced: 1937 Discontinued: 1940 Lens: 105mm, f/7.7 or f/6.3 Voigtar; 110mm, f/6.3 or f/4.5 Voigtar; or 105mm, f/4.5 Skopar.

Shutter: Singlo (with f/7.7 Voigtar), 1/25, 1/75 sec., plus B & T and self-timer; Prontor (with 105mm or 110mm f/6.3 Voigtar), 1/25 to 1/125 sec., plus B & T and self-timer; Prontor II (with 110mm, f/4.5 Voigtar), 1 to 1/150 sec., plus B & T and self-timer

timer; or Compur (with 105mm, f/4.5 Skopar), 1 to 1/250, plus B & T and self-timer.

Flash Sync: None. Inadvisable to try



to add internal sync to Singlo. Others, add Type 1 (X sync). See page 69

Special Features: Optical and waistlevel finders; trigger-type shutter release in baseboard; built-in depth of field chart; mask for taking 16 pictures 15/8 x 21/4.

Last List Price: With f/7.7 Voigtar, \$16; with f/6.3 Voigtar, \$21.50; with f/4.5 Voigtar, \$27.50; with f/4.5 Skopar, \$43.50

Last Reported Used Selling Price Range in 1956: With f/4.5 Skopar, \$17-\$27

Special Identification Points: 1.
Frame-type, instead of built-in optical viewfinder as in later versions;
2. Shutter release in baseboard, instead of body of camera as in later versions.

VOIGTLANDER BESSA I

Film Size: 8 pictures 21/4 x 31/4 or 16 pictures 15/8 x 21/4 on 120 film.

Introduced: 1950 (Currently in production)



Lens: Factory coated 105mm, f/4.5 Vaskar or 105mm, f/3.5 Color-Skopar.

Shutter: Early versions had Prontor S, 1 to 1/250 sec., plus B and self-timer, or Synchro-Compur, 1 to 1/500 sec., plus B and self-timer. Current versions have Prontor SV, 1 to 1/300 sec., plus B and self-timer.

Flash Sync: Factory installed. Early

versions had X only. Later ones have M and X.

Special Features: Double exposure prevention; parallax-compensated optical viewfinder; zone focusing; body shutter release; built-in depth of field scale; mask for taking 16 pictures.

Last List Price: With f/4.5 Vaskar lens, \$57.50; with f/3.5 Color-Skopar lens, \$72.50

Last Reported Used Selling Price Range in 1956: With f/3.5 Color-Skopar, \$40-\$49

Special Identification Points: 1. No built-in rangefinder; 2. Body shutter release.

VOIGTLANDER RANGEFINDER BESSA

Film Size: 8 pictures 21/4 x 31/4 or 16 pictures 15/8 x 21/4 on 120 film.

Introduced: 1939 Discontinued: 1941 Lens: 105mm, f/3.5 Skopar:

Shutter: Compur-Rapid, 1 to 1/400



sec., plus B & T and self-timer.

Flash Sync: None. Add either Type 1
(X sync) or 2 (M bulbs). See page 69

Special Features: Coupled rangefinder; built-in binged filter: mask
for taking 16 pictures: viewfindermask selector knob: trigger-type
shutter release in baseboard; builtin depth of field scale.

Last List Price: \$75 Last Reported Used Selling Price Range in 1956: \$32-\$43

Special Identification Points: 1. Builtin hinged filter; 2. Made only with black finish.

VOIGTLANDER BESSA II

Film Size: 8 pictures 21/4 x 31/4 on 120 film.

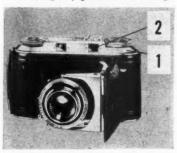
Introduced: 1950 (Currently in production)

Lens: 105mm, f/3.5 Color-Heliar, 105mm, f/3.5 Color-Skopar, or (in latest version only) 105mm, f/4.5 Apo-Lanthar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: None. Factory installed M and X.

Special Features: Coupled rangefinder with single eyepiece for view-range-



finder; zone focusing settings; builtin depth of field scale; trigger-type_shutter release in baseboard.

Last List Price: With f/3.5 Color-Heliar, \$159.50; with f/3.5 Color-Skopar, \$119.50; with f/4.5 Apo-Lanthar, \$200

Last Reported Used Selling Price Range in 1956: With f/3.5 Color-Heliar, \$57-\$80

Special Identification Points: 1. Made only with chrome finish; 2. Single window for view-rangefinder.

ZEISS

Manufacturer: Zeiss Ikon A.G., Stuttgart, Germany.

Importer: Carl Zeiss, Inc., 485 Fifth Ave., New York 17, N. Y.

Flash Sync: Type 1 (X sync) can be added to any non-sync Zeiss folding camera listed. See page 69 for flash sync details.

SUPER IKONTA A (1934 model) Introduced: 1934 Discontinued: 1937 Film Size: 16 pictures 13/4 x 21/4 on 120 film.

Lens: 70 or 75mm, f/3.5 Zeiss Tessar. Shutter: Compur-Rapid, 1 to 1/500 sec., plus B & T.



Flash Sync: None. See note beginning of Zeiss section.

Special Features: Coupled rangefinder; self-erecting front; directvision optical finder.

Last List Price: With 70 or 75mm Tessar, \$110

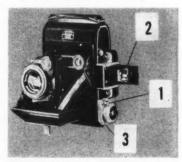
Last Reported Used Selling Price Range in 1956: \$28-\$43

Special Identification Points: 1. No body shutter release (on earlier version only); 2. Made only with black enamel finish with nickel-plated fittings.

SUPER IKONTA A (1937 model)

Film Size: 16 pictures 13/4 x 21/4 on 120 film.

Introduced: 1937 Discontinued: 1950 Lens: 75mm, f/3.5 Tessar (between 1948 and 1950 came with 75mm f/3.5 Schneider Xenar lens).



Shutter: Compur-Rapid, 1 to 1/500 sec., plus B.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Double exposure prevention; body shutter release; Albada sports finder. Other features same as 1934 version.

Last List Price: With 75mm, f/3.5 Tessar, \$204; with 75mm, f/3.5 Xenar, \$162

Last Reported Used Selling Price Range in 1956: \$42-\$51

Special Identification Points: 1. Body shutter release; 2. Albada finder; 3. Made only in chrome finish.

SUPER IKONTA A (1950 model)

Film Size: 16 pictures 13/4 x 21/4 on 120 film.

Introduced: 1950 Discontinued: 1956 Lens: Factory coated 75mm, f/3.5 Zeiss Tessar.

Shutter: Flash-synchronized Compur-Rapid, 1 to 1/500 sec., plus B (latest version has Synchro-Compur with same range of speeds).

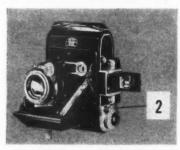
Flash Sync: Factory installed. Early versions with Compur-Rapid had X sync; later ones have M and X.

Special Features: Blank-exposure prevention. Other features same as 1937 version.

Last List Price: \$102

Last Reported Used Selling Price Range in 1956: \$52-\$74

Special Identification Points: 1. Built-



in flash sync; 2. Visual signal for blank exposure prevention.

SUPER IKONTA B (1935 model)

Note: Originally known as Super Ikomat.

Introduced: 1935 Discontinued: 1937 Film Size: 11 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film.

Lens: 80mm, f/3.5 or f/2.8 Zeiss Tessar.

Shutter: Compur-Rapid, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Coupled rangefinder; built-in depth of field scale; body shutter release; double exposure prevention; exposure counter; accessory shoe.

Last List Price: With f/2.8 Tessar, \$154; with f/3.5 Tessar, \$140



Last Reported Used Selling Price Range in 1956: With f/3.5 Tessar, \$39-\$54

Special Identification Points: 1. Lens and shutter housing finished in black enamel; 2. Separate eyepieces for view- and rangefinder; 3. Only Super Ikonta B model without automatic film stop.

SUPER IKONTA B (1937 model)

Introduced: 1937 Discontinued: 1951 Film Size: 11 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film.

Lens: 80mm, f/2.8 Zeiss Tessar.

Shutter: Compur-Rapid, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Combined eyepiece for view- and rangefinder; automatic film stop. Other features same as 1935 model.

Last List Price: \$154

Last Reported Used Selling Price Range in 1956: \$57-\$79

Special Identification Points: 1. From 1937 to 1948, lens and shutter housing was finished in black enamel; after 1948, in chrome; 2. Combined eyepiece for view- and rangefinder, and automatic film stop.

SUPER IKONTA B (Latest model)

Introduced: 1951 Discontinued: 1956 Film Size: 11 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film.



Lens: Factory coated 80mm, f/2.8 Zeiss Tessar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Same as 1937 model. Last List Price: \$145

Last Reported Used Selling Price Range in 1956: \$76-\$89

Special Identification Points: 1. Factory installed sync; 2. Shutter speeds to 1/500 sec.

SUPER IKONTA III

Film Size: 12 pictures 21/4 x 21/4 on

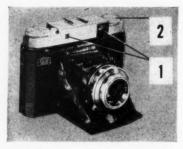
Introduced: 1954 (Currently in production)

Lens: Factory coated 75mm, f/3.5 Novar or Zeiss Tessar. Current version, Novar only.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Coupled rangefinder with combined view and rangefinder eyepiece; built-in depth of field scale; body shutter release; blank and double exposure prevention; "red-dot" zone focusing; automatic exposure counter and film transport; film-type indicator.

Last List Price: With Novar lens, \$89; with Tessar, \$120



Last Reported Used Selling Price Range in 1956: With f/3.5 Tessar, \$54-\$76

Special Identification Points: 1. Rangefinder assembly is completely enclosed; 2. Film-type indicator.

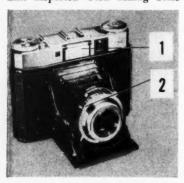
SUPER IKONTA IV

Note: This model is basically the same as Super Ikonta III, but has the following differences: built-in exposure meter; shutter incorporates Light Value Scale cross-coupled to lens diaphragm. It comes only with 75mm, f/3.5 Zeiss Tessar lens.

Introduced: 1956 (Currently in production)

Last List Price: \$124

Last Reported Used Selling Price



Range in 1956: Not available. Serial Numbers: Not available. Special Identification Points: 1. Builtin exposure meter; 2. Shutter has Light Value Scale.

SUPER IKONTA BX (1937 model)

Introduced: 1937 Discontinued: 1952 Film Size: 12 pictures $2\frac{1}{4} \times 2\frac{1}{4}$ on 120 film.

Lens: 80mm, f/2.8 Zeiss Tessar.

Shutter: Compur-Rapid, 1 to 1/400 sec., plus B and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Built-in photoelectric exposure meter, calibrated in American Scheiner degrees (after 1948 came with ASA indexes); automatic film stop; signal device indicates when all 12 exposures have been completed. Other features

same as Super Ikonta B, 1937 model. Last List Price: \$219

Last Reported Used Selling Price Range in 1956: \$68-\$90

Special Identification Points: 1. Before 1948 came with exposure meter in American Scheiner degrees; after 1948 meter had ASA indexes. 2. Ex-



posure meter housing is higher than on later version.

SUPER IKONTA BX (Latest model)

Introduced: 1952 (Currently in production)

Film Size: 12 pictures 21/4 x 21/4 on 120 film.

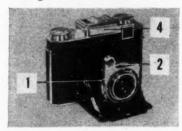
Lens: Factory coated 80mm, f/2.8 Tessar.

Shutter: Synchro-Compur, 1 to 1/500 sec., plus B and self-timer.

Flash Sync: Factory installed, M & X. Special Features: Built-in photoelectric exposure meter calibrated in ASA indexes. Other features same as Super Ikonta BX, 1937 model. Note: Exposure meter on this version requires less manipulation than meter in older version.

Last List Price: \$163

Last Reported Used Selling Price Range in 1956: \$80-\$110



Special Identification Points: 1. Factory installed sync; 2. Shutter speeds to 1/500 sec.; 3. ASA indexes; 4. Exposure meter housing is considerably shorter in height than on older version.

SUPER IKONTA C (1934 model)

Film Size: 8 pictures 21/4 x 31/4 or (with mask) 16 pictures 13/4 x 21/4 on 120 film.

Introduced: 1934 Discontinued: 1936 Lens: 105mm, f/4.5 or f/3.8 Zeiss Tessar.

Shutter: Compur (with f/4.5 Tessar), 1 to 1/250 sec., plus B & T; or Compur-Rapid (with f/3.8 Tessar), 1 to 1/400 sec., plus B & T and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

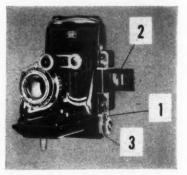
Special Features: Coupled rangefinder; self-erecting front; directvision optical finder.

Last List Price: With f/4.5 Tessar, \$86; with f/3.8 Tessar, \$122

Last Reported Used Selling Price Range in 1956: With f/3.8 Tessar, \$44-\$59

Special Identification Points: 1. No body shutter release as in 1936 model; 2. Finished in black enamel with nickel-plated fittings; 3. No factory installed flash sync.

SUPER IKONTA C (1936 model)



Film Size: 8 pictures 2½ x 3½ or (with mask) 16 pictures 1¾ x 2½ on 120 film.

Introduced: 1936 Discontinued: 1950 Lens: Until 1938, came with 105mm, f/3.8 Tessar; after 1938, supplied with either f/4.5 or f/3.5 Tessar.

Shutter: Compur (with f/4.5 Tessar), 1 to 1/250 sec., plus B and self-timer; Compur-Rapid (Tessar f/3.8 or f/3.5), 1 to 1/400 sec., plus B and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Double exposure prevention; body shutter release; Albada sports finder. Other features same as earliest version.

Last List Price: With f/3.8 Tessar, \$122

Last Reported Used Selling Price Range in 1956: \$33-\$44

Special Identification Points: 1. Body shutter release; 2. Albada finder; 3. Made only with chrome finish; 4. No built-in flash sync.

SUPER IKONTA C (1950 model)

Film Size: 8 pictures 21/4 x 31/4 or (with built-in mask) 16 pictures 13/4



x 21/4 on 120 film.

Introduced: 1950 Discontinued: 1955 Lens: Factory coated 105mm, f/3.5 Zeiss Tessar.

Shutter: Flash-synchronized Compur-Rapid, 1 to 1/400 sec., plus B and self-timer (latest version has Synchro-Compur with same range of speeds).

Flash Sync: Factory installed. Version with Compur-Rapid, X only; with Synchro-Compur, M and X.

Special Features: Blank exposure prevention. Other features same as 1936 version.

Last List Price: \$114

Last Reported Used Selling Price Range in 1956: \$53-\$74

Special Identification Points: 1. Builtin flash sync; 2. Visual signal for blank-exposure prevention.

SUPER IKONTA D

Film Size: 8 pictures 21/2 x 41/4 or (with mask) 16 pictures 21/8 x 21/2 on 616 film.



Introduced: 1936 Discontinued: 1939 Lens: 120mm, f/4.5 Zeiss Tessar.

Shutter: Compur, 1 to 1/250 sec., plus B & T and self-timer, or Compur-Rapid, 1 to 1/400 sec., plus B & T and self-timer.

Flash Sync: None. See note, beginning of Zeiss section.

Special Features: Coupled rangefinder; self-erecting front. Last List Price: \$94 Last Reported Used Selling Price Range in 1956: \$32-\$47

Special Identification Points: 1. Considerably larger dimensions than other Super Ikontas.

MISC. STILL CAMERAS

LARGE REFLEXES, PRESS CAMERAS, and other types which do not fit into the previous categories, have been included here. There are many other makes which are candidates for this section, but complete information about them is not yet available.

GRAFLEX

Manufacturer: Graflex, Inc., 154 Clarissa St., Rochester 8, N. Y. (Known before 1943 as Folmer Graflex Corp.)

Type: All of the following Graflex cameras are of the single-lens reflex

type.

Film: All models excépt 1A, 3A, and National Graflex use sheet film, plates, or film pack, and also accept Graflex roll film attachments and sheet film or plate magazines.

Lens: Lenses were usually supplied in barrel mounts. However, those cameras having interchangeable lensboards occasionally were fitted with lenses in between-the-lens shutters. Standard lenses include Kodak Anastigmat, B. & L. Tessar, or Zeiss Tessar. The later Graflex models also come with Kodak Ektar or Graflex Optar lenses.

Shutter: All models have Graflex focal plane shutters. Range of shutter speeds varies with the different

models.

Flash Sync: With the exception of the R.B. Super D, none of the single-lens reflex Graflexes is equipped with factory installed sync. Types 1 and/or 2 sync may be added to some models, but it may be expensive. Type 4 sync devices have been available in the past (see page 69 for details).

SERIES B GRAFLEX

Film Size: Came in $2\frac{1}{4} \times 3\frac{1}{4}$, $3\frac{1}{4} \times 4\frac{1}{4}$, 4×5 , and 5×7 models.

Introduced: 1925 Discontinued: 21/4 x 31/4 model, 1926; 31/4 x 41/4, 1937; 4 x 5, 1937; 5 x 7, 1942.

Lens: Interchangeable. Standard lens is f/4.5 Kodak Anastigmat.

Shutter Speeds: 1/10 to 1/1000 sec., plus T.

Flash Sync: See note, beginning of Graflex section.

Special Features: Screw-in lens mount.

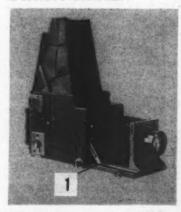
Last List Price: With f/4.5 Kodak Anastigmat lens: 2½ x 3½ model, \$58.50; 3½ x 4½, \$85.50; 4 x 5, \$101.50; 5 x 7, \$201.10



Last Reported Used Selling Price Range in 1956: 21/4 x 31/4, with f/4.5 K. A., \$31-\$46

Special Identification Points: 1. Small door in front, past which lens protrudes when focused; 2. Screw-in lens mount; 3. Back does not revolve.

R. B. AUTO GRAFLEX



Film Size: Came in 31/4 x 41/4 and 4 x 5 models.

Introduced: 1909 Discontinued: 31/4 x 41/4, 1942; 4 x 5, 1940

Lens: Interchangeable. Standard lens: f/4.5 Kodak Anastigmat.

Shutter Speeds: 1/10 to 1/1000, T. Flash Sync: See note, beginning of Graflex section.

Special Features: Double extension bellows; revolving back; interchangeable lensboards.

Last List Price: With lens: $3\frac{1}{4} \times 4\frac{1}{4}$, \$165; 4 x 5, \$242.50

Last Reported Used Selling Price Range in 1956: 4 x 5, with f/4.5 Ektar, \$109-\$130

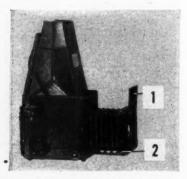
Special Identification Points: 1. Front of camera with auxiliary track drops to horizontal position allowing use of double extension bellows.

R. B. TELE GRAFLEX

Film Size: Came in 31/4 x 41/4 and 4 x 5 models.

Introduced: 31/4 x 41/4, 1915; 4 x 5, 1912. **Discontinued:** 1923

Lens: Interchangeable. Standard lens: f/4.5 Kodak Anastigmat or B. & L. Tessar.



Shutter Speeds: 1/10 to 1/1000 sec., plus T.

Flash Sync: See note, beginning of Graflex section.

Special Features: Revolving back; interchangeable lensboards.

Last List Price: With lens: 31/4 x 41/4, \$100; 4 x 5, \$116

Last Reported Used Selling Price Range in 1956: 31/4 x 41/4, with f/4.5 K. A., \$33-\$52

Special Identification Points: 1. Small door over lens opens automatically; 2. Entire front box assembly moves forward as lens is focused. Note: The R. B. Tele Graflex closely resembles the later Series D Models.

R. B. SERIES B GRAFLEX

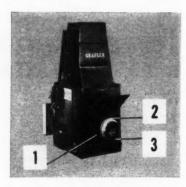
Film Size: Came in $2\frac{1}{4} \times 3\frac{1}{4}$, $3\frac{1}{4} \times 4\frac{1}{4}$, and 4×5 models.

Introduced: 1925 Discontinued: 21/4 x 31/4, 1951; 31/4 x 41/4 and 4 x 5, 1942

Lens: f/4.5 Kodak Anastigmat. Note:

Last version of $2\frac{1}{4} \times 3\frac{1}{4}$ model came with f/4.5 Ektar.

Shutter Speeds: 1/10 to 1/1000, T. Flash Sync: See note, beginning of Graflex section.



Special Features: Revolving back. **Last List Price:** With lens: 2½ x 3½, \$129.50: 3½ x 4½, \$128: 4 x 5 \$146.65

Last Reported Used Selling Price Range in 1956: 31/4 x 41/4, with f/4.5 K. A., \$33-\$52

Special Identification Points: 1. When focused, lens protrudes past door opening: 2. Lens screws into mount;
 No removable lensboard.

R. B. SERIES C GRAFLEX

Film Size: Came in 31/4 x 41/4 model only.

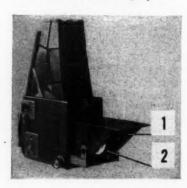
Introduced: 1926 Discontinued: 1935 Lens: Non-interchangeable 6½ in., f/2.5 Cooke.

Shutter Speeds: 1/10 to 1/1000, T. Flash Sync: See note, beginning of Graflex section.

Special Features: Large aperture lens; built-in lens shade; revolving back. Last List Price: With lens, \$208

Last Reported Used Selling Price Range in 1956: With f/3.5 Tessar, \$80-\$99

Special Identification Points: 1. Large front door with side wings opens au-



tomatically as lens is focused; 2. Non-interchangeable lens.

R. B. SERIES D GRAFLEX

Film Size: Came in $3\frac{1}{4} \times 4\frac{1}{4}$ and 4×5 models.

Introduced: 1928 Discontinued: 31/4 x 41/4, 1941; 4 x 5 1945

Lens: Interchangeable. Standard lens: f/4.5 Kodak Anastigmat or lens of similar speed.

Shutter Speeds: 1/10 to 1/1000, plus T. Flash Sync: See note, beginning of Graflex section.

Special Features: Interchangeable lensboards; revolving back; built-in lens shade.

Last List Price: With lens: $3\frac{1}{4} \times 4\frac{1}{4}$, \$138; 4 x 5, \$176

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Last Reported Used Selling Price Range in 1956: 31/4 x 41/4, with f/4.5 Tessar, \$51-\$69

Special Identification Points: 1. Large front door with side wings opens automatically as lens is focused; 2. Interchangeable lensboards.

R. B. SUPER D GRAFLEX

Film Size: Comes in $3\frac{1}{4} \times 4\frac{1}{4}$ and 4×5 models.

Introduced: 3½ x 4½, 1941; 4 x 5, 1948 (both models are currently in production).

Lens: Interchangeable. Standard lens: 31/4 x 41/4, 152mm, f/4.5 Ektar in automatic diaphragm; 4 x 5, 190mm, f/5.6 Ektar or Optar in automatic diaphragm.

Shutter Speeds: 1/30 to 1/1000 sec., plus T and approximately 1/5 sec.

Flash Sync: Factory installed. Earlier 31/4 x 41/4 model had open flash sync only. Later versions have "drop curtain" X sync; also for FP bulbs at high shutter speeds.



Special Features: Fully automatic diaphragm: first surface mirror; Ektalite Field lens (added in August, 1949); revolving back; interchangeable lenses.

Last List Price: With lens: $3\frac{1}{4} \times 4\frac{1}{4}$, \$335; 4×5 , \$335

Last Reported Used Selling Price Range in 1956: 4 x 5, with f/5.6 Ektar, \$153-189

Special Identification Points: 1. Early 3½ x 4½ model had flash contact in center of left side of camera; 2. Later models have 2-post ASA connector on right side near shutter wind key; 3. Supplied in chrome trim; 4. Release for automatic diaphragm.

NATIONAL GRAFLEX

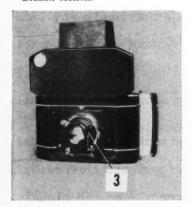
Note: Available in two models, Series I and II.

Film Size: Ten 21/8 x 21/2 pictures on 120 roll.

Introduced: Series I, 1933; Series II, 1934. Discontinued: Series I, 1935; Series II, 1941.

Lens: Series I: Non-interchangeable, 75mm, f/3.5 B. & L. Tessar; Series II: 75mm, f/3.5 Tessar. Also accepted telephoto 140mm, f/6.3 B. & L.

Shutter Speeds: 1/30 to 1/500; B. Flash Sync: See note, beginning of Graflex section.

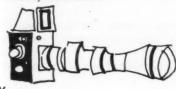


Special Features: Compact size; builtin magnifier; built-in exposure guide in cover; automatic film spacing.

Last List Price: With 75mm, f/3.5 lens: Series I, \$72.50; Series II, \$97.75

Last Reported Used Selling Price Range in 1956: Series I: \$21-\$40; Series II: \$30-\$44

Special Identification Points: 1. Series 1 had mirror set lever at right of focusing hood; 2. Series II had mirror set lever at left of focusing hood; 3. Series II accepts telephoto lens; 4. Series II had built-in slide for ruby film window.



SPEED GRAPHIC

Manufacturer: Graflex, Inc., 154 Clarissa St., Rochester 8, N. Y.

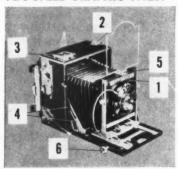
Film: All models use sheet film, plates, or film pack. Models with Graflex or Graflok backs can also be used with roll film, by means of an accessory roll holder.

Lens: All models have interchangeable lensboards. Standard lenses include Kodak Anastigmat and Ektar, Graflex Optar, Bausch & Lomb Tessar, or Zeiss Tessar. Lenses come in various focal lengths, in barrel mounts, or with between-the-lens shutters.

Shutter: All models come with Graflex focal plane shutter. All models except Pacemaker Speed Graphics have speeds from 1/10 to 1/1000 sec., plus T. Pacemaker shutter speeds are from 1/30 to 1/1000; T.

Flash Sync: Only Pacemaker Speed Graphics have factory installed sync for the focal plane shutter. Unless there is compelling reason to do so, it is inadvisable and unnecessary to add sync to the focal plane shutter. Front shutters of Speed and Crown Graphics may be non-sync or have Types 1, 2, 3, 5 or combination of any of these (see page 69 for details).

4 x 5 SPEED GRAPHIC (1928)



Introduced: 1928 Discontinued: 1939 Standard Lens: 51/4, 6, or 61/2 in.

Flash Sync: See note, beginning of Speed Graphic section.

Special Features: Double extension bellows; interchangeable film holders; two viewfinders; 4 x 4 in, lensboards; came with Graphic or Graflex back; provision for use of rangefinder or flash outfit.

Last List Price: With Kodak Anastigmat in Compur shutter, \$125

Last Reported Used Selling Price Range in 1956: With f/4.7 Ektar, \$78-\$94

Special Identification Points: 1. First 4 x 5 Speed Graphic model with 4 x 4 in. lensboard; 2. First 4 x 5 Speed Graphic model with handle on side;

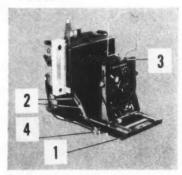
3. Version supplied before 1939 had folding Graphic finder; version supplied in 1939 came with tubular type finder; 4. Came only in all black finish with metal parts finished in gray; 5. Folding front finder; 6. Came only with single focusing knob.

31/4 x 41/4 SPEED GRAPHIC (1935)

Introduced: 1935 Discontinued: 1939 Standard Lens: 51/4 or 51/9 in.

Flash Sync: See note, beginning of Speed Graphic section.

Special Features: Same as 1928 version of 4 x 5 Speed Graphic, but had 31/4 x 31/4 in. lensboard, instead of 4 x 4 in.



Last List Price: With Kodak Anastigmat lens in Compur shutter, \$125 Last Reported Used Selling Price Pange in 1956: With \$14.5 Tessar

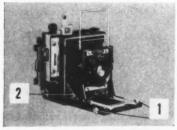
Range in 1956: With f/4.5 Tessar, \$69-\$82

Special Identification Points: 1. Was supplied only with wood front bed; 2. Came only in all black finish withmetal parts finished in gray; 3. Folding front frame finder; 4. Came only with single focusing knob.

ANNIVERSARY SPEED GRAPHIC

Film Size: Available in $3\frac{1}{4} \times 4\frac{1}{4}$ and 4×5

Introduced: 1940 Discontinued: 1947



Standard Lens: 3½ x 4½ model: 5, 5½, or 5½ in.; 4 x 5 model: 5, 5¼, 6, or 6½ in.

Flash Sync: See note, beginning of Speed Graphic section.

Special Features: Double extension bellows; interchangeable film hold-(Continued on page 122)

HOW TO TESTA

- 1. Does the camera show abuse, or just fair wear and tear?
- 2. Is the lens mount rigid, or does it wobble when shaken?
- 3. Do all moving parts operate smoothly, or do they bind and grind?
 - 4. Are the pressure plate and rollers smooth and rust-free?
 - 5. Does the camera back open and close easily, and lock securely?
 - 6. Is the bellows clean and new looking, or shabby and dried out?
 - 7. Does the shutter work smoothly and consistently, or does it falter and make rasping sounds?
 - 8. Does the diaphragm open and close easily?
 - 9. Is the black paint inside the camera clean and smooth, or is it worn and chipped?
 - 10. Is the lens unblemished, or hazy, scratched, badly discolored?
- 11. Is the rangefinder image clear, sharp, and in proper alignment when the camera is focused at infinity?
 - 12. Is the focusing panel of the reflex camera rigid, or does it feel loose when shaken in various directions?
 - 13. Does the lens sit straight and true on the camera front, or is it bent off at an angle?
 - 14. Is the mirror of the reflex camera clean and bright when viewed through the taking lens, or dull and tarnished?
 - 15. Do the flash contacts complete the circuit and fire the bulb or speed light every time, or inconsistently?
 - 16. Does the self timer work properly?

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BUY AND CAMERA

WHEN YOU BUY A CAMERA, be it new or used, the first thing to do is to test it!

For a used camera, this is a must. And even a new camera may have been damaged in shipment, or it may be that infrequent "lemon" that slips by inspection.

Most important thing is to buy from an established photo dealer—some firm with a permanent store and a stock of equipment and a reputation for being reliable. Looking for "bargains" elsewhere is false economy.

Before actually buying, ascertain your dealer's guarantee policy. Does his guarantee mean money back for any legitimate reason within a specified brief time? Does it limit you to repair of the camera if defective, or exchange for another one, but no money back? Or will it cover only part of the cost of repairing the item?

What our tests cover

The tests outlined on the following pages are designed to separate the sheep cameras from the goat cameras, and within a very brief guarantee period, if necessary. They will not help you to find the perfect, aberration-free, super-duper lens, nor the most accurate shutter. However, any camera which will pass all these checks and tests satisfactorily will be a good picture taker and should be a useful, enjoyable instrument to have. Remember—it must pass on every point!

The tests and checks are practical, simple, rapid. You need no special equipment, no special techniques. The tests are in two parts: those you do in the store, and those you perform after you leave the store.

Tests and checks in the store

Many normally sharp-eyed people get kind of giddy when they come face to face with a long desired piece of equipment and forget to inspect it carefully. Don't depend on your memory. Use the check list opposite and the detailed information on pages 106-107. Read the flash sync material on page 69 and be certain you know just what kind of sync the camera has. If the

camera appears to be otherwise satisfactory, have the salesman demonstrate that the sync works by shooting some flash pictures right then in the store (you buy the film and bulbs, if necessary) with the type of flash equipment you will be using. Develop these shots along with the rolls used for your picture taking tests.

The picture taking tests

These are designed for three purposes: to determine if the lens, focusing system, and film plane are all in proper adjustment; to see if the lens can produce sharp pictures; to check the shutter for consistency, rather than absolute accuracy.

You will need two types of film. Use a medium speed fine grain film (Kodak Plus-X or Verichrome Pan, or Ansco Supreme) for the focus and sharpness tests, as you probably shoot most of your pictures with such film. Use a slow, higher contrast, smaller latitude emulsion (Adox KB-14, or Kodak Panatomic-X as a second choice) for the shutter tests; page 110. This will make it fairly easy to detect any exposure differences due to shutter malfunction.

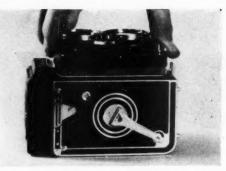
If you ordinarily shoot slow films for most of your pictures, then use your usual choice for the focus and sharpness tests too. Don't use very fast film.

Use a medium fine grain developer (such as Kodak D-76 or Clayton P-60) and don't overdevelop. Examine the type in the negatives with a magnifying glass—a 10-power glass will give you a good idea of what's what, a 20-power shows more but may be more difficult to use. If you can get the use of an enlarger known to have a sharp lens system, use it, raised to about 10X enlargement. Let your eyes accommodate to the darkness, focus carefully, project the images onto white paper. Close the lens at least two f-numbers for maximum sharpness.

If parts of the image seem blurry, it may be the enlarger. Turn the negative 180°, refocus, try again.

That's it. Now read the entire article carefully. Take your time on all the steps, work precisely.

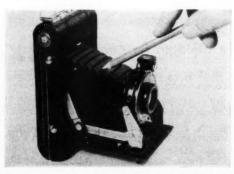
CHECK THESE MAIN POINTS IN THE STORE



1. Examine reflex cameras carefully for play in focusing panel. Extend panel fully and try to rock it back and forth. If more than slightest play exists, reject camera; such repairs are expensive and time consuming, and are seldom worth the effort and cost.



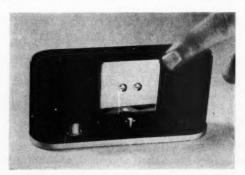
4. Lens mount of folding camera tends to loosen with wear; examine carefully. It should be absolutely rigid and hold lens exactly perpendicular. Bent arms will prevent camera from opening and closing properly, and will set lens at angle, causing improper focus.



5. Only picture taking will prove bellows is OK, but examine it carefully beforehand. Open camera, insert small flashlight or lighted bulb, look for light leaks in darkened room or under covering. Reject camera with leaky, dried out, much patched bellows.



8. Focusing scale should line up at infinity mark on most cameras. If it won't go to infinity there is some malfunction or damage. If scale goes past infinity, check manufacturer's instructions to see if this is normal behavior. It may be.



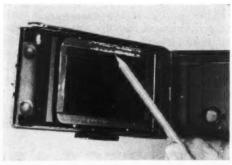
9. Camera back and pressure plate can be source of scratches, unsharp focus, other difficulties. Back must lock securely, fit snugly, be unwarped. Pressure plate must be extremely smooth, move easily on lively springs.



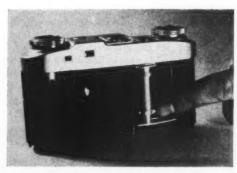
2. Shutter setting dials should move freely and easily into place; click stops, if any, should work in positive manner. Shutter must operate easily. Remove lens or open back of camera, and observe shutter operation at all speeds. Reject camera with bad shutter.



3. Film winding knob should work easily without film in camera. Loaded camera should have firm but smooth feel to winding mechanism. Place ear against back of camera and listen for grinding or rasping noises as film is advanced. Make sure film cartridge is OK.



6. Camera's interior black paint should be dull, smooth, even. Bright metal will cause reflections that degrade contrast and quality of pictures, may cause fog. Rough, chipped paint surface may scratch film.



7. Sprockets and rollers both contact film and must be smoothly finished and operating properly to avoid scratches and overlapped frames. Examine sprockets for damage such as chips. Clean, smooth rollers are especially important with Polaroid Land cameras.

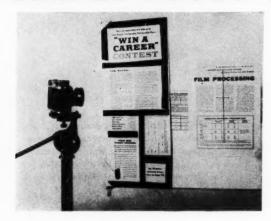


10. Mounts on interchangeable lens cameras will wear after long use. Test mount by rocking lens gently in all directions. Slight amount of play is unavoidable, but cameras having shaky mounts should be rejected.

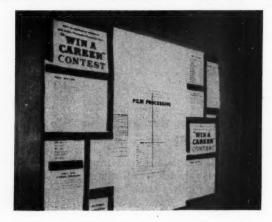


11. Threads or helix in focusing mount must be smooth, clean, not over-lubricated, if camera is to function long and well. Rotate mount, keeping sharp lookout for excess oil, binding, roughness, grinding sounds.

SIMPLE FOCUS TESTS TELL YOU IF

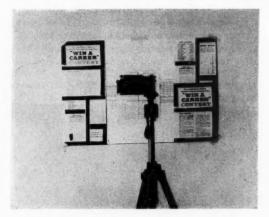


1. Before you can test for lens sharpness, you must first determine if rangefinder, footage scale, ground glass, lens mount are in accurate alignment. Make test chart of slick magazine pages with type of various sizes. Set camera on tripod at about 45° angle to chart and as near to line drawn down center of chart as camera will focus. Make careful exposure as described in 2; repeat with camera 10 ft. from line, as double check on focus.

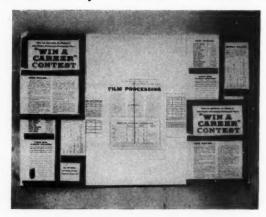


2. Use even lighting, such as bounce light. Focus sharply on chart's center line. Use cable release, widest lens opening; avoid overexposure. If camera is properly adjusted, negative should show sharp image of line, plus small sharp areas in front of and behind line. Focus should be accurate at closest range, at 10 ft., and infinity (page 110). Sharp focus at only one or two points may mean difficult or costly repairs.

IF FOCUS IS CORRECT, TEST LENS



5. Once you know that your camera is focusing accurately, you can test for lens sharpness. Set camera on tripod, level with and absolutely parallel to center of chart. You can align camera accurately by measuring from ends of camera to sides of chart. Also check visually that lens is aimed straight at chart, which should fill negative. If short on time, shoot all focus, sharpness, shutter tests, develop together, examine.



6. Focus carefully; make sure there is no camera movement during exposures. Use slow or medium speed fine grain film. Keep exposure and development on short side to produce relatively thin, readable negative. Make three exposures: one wide open, one with lens closed two f-numbers, one at smallest aperture. Above is example of excellent overall definition; type is crisply outlined.

CAMERA IS PROPERLY ADJUSTED

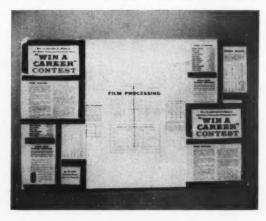


3. If camera is not focusing on point at which you aimed, these tests will reveal it. In this case, area well behind center line (point focused on) was in sharp focus. This is "back focusing" and indicates that lens has not been moved forward sufficiently by focusing system to record desired areas sharply. Be sure that infinity focus test (page 110) is at beginning or end of same roll of film used for close-up and 10 ft. focus tests.

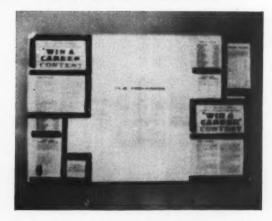


4. This is "front focusing" where area of sharpness falls in front of point focused on. Such out of focus results can be caused by maladjustment of focusing system (rangefinder, distance scale, or ground glass), or by misalignment of lens mount. Rangefinder and distance scale malfunctions are simplest to repair. Lens mount and ground glass adjustments are more difficult and may be costly. Develop focus test roll, examine as described on page 105.

FOR ITS OVERALL SHARPNESS

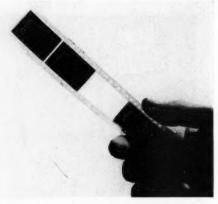


7. Top quality lenses of moderate speed (f/3.5 or slower) should give sharp images overall at all apertures. High speed lenses (f/2.8 or faster) should give sharp images overall at all settings, except wide open; edge areas as unsharp as above may be tolerated at widest opening, if rest of picture is sharp. If tests show focus is accurate, but images are unsharp overall, as above, repeat test. If results are same, reject camera. This isn't good enough.

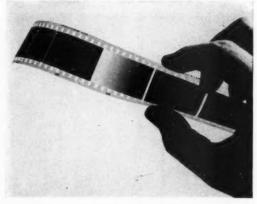


8. If any part of negative is as unsharp as above, at any aperture, reject camera. Some lenses give reasonably crisp center definition, are total loss at edges. Don't buy camera with such optical equipment. If entire negative is very unsharp, repeat focus test and lens test. If results are same, reject camera, but be sure tests are accurate.

IS THE SHUTTER CONSISTENT?



Consistent operation is more important than actual accuracy of shutter speeds. Using slow film (Kodak Panatomic-X or Adox KB-14) make series of similar value exposures of evenly lighted gray wall or dull sky. Use full range of shutter speeds, compensating with proper f-numbers to get similar exposures. All negatives should be of same density. If slow speed is running too fast, frame will be thin (left, above);

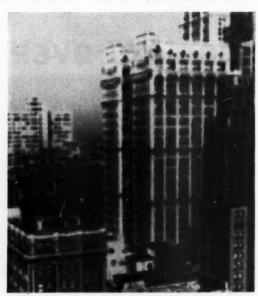


if shutter runs very slow, or sticks, on one speed, frame will be extra dense. Focal plane shutter operating unevenly produces variable density negative, above; this is common result at 1/1,000 sec. even with brand new cameras. If it occurs, ask dealer to have shutter adjusted so it functions properly at all speeds.

IS FOCUS SHARP AT INFINITY?



Camera should give sharp pictures at infinity setting as well as at close ranges. Choose subject with plenty of detail to cover full diagonal of negative. Use moderate side lighting to show up some texture; avoid completely flat or excessively contrasty lighting. Check rangefinder or ground glass against footage scale; if they differ, make exposures by each focusing method, keeping careful records of which



method was used for each shot. Use three lens settings: wide open, closed down two f-numbers, and smallest aperture. Every infinity shot should be sharp overall (exception: photo 7, page 109) and rangefinder or ground glass should coincide with distance scale. If infinity tests are unsharp, reject camera. Repairs may be costly (exception: press camera with adjustable infinity stop).



DPL 318 PHOTOKINA, COLOGNE, GERMANY 270/268 3 0035 PAGE 1 LT MISS J. JUDGE, EDITOR, MODERN PHOTOGRAPHY 33 WEST 60 ST NYC

Terrific material for PHOTOKINA story next month. Fantastic number new cameras and accessories. ROLLEIFLEXES have improved lenses, exposure meters. KODAK introduces 35mm eye-level reflex having f/2 lens with interchangeable lens components, dual range exposure meter. CONTAFLEX III, IV also have interchangeable lens components. 35mm prism reflex PENTACON F incorporates completely automatic internally built diaphragm. So does PRACTISIX 2-1/4 single lens reflex. Plaubel Makina MAKIFLEX is new single lens reflex with f/2.5 interchangeable backs for 2-1/4. Voigtlander VITESSA T 35mm has interchangeable lens components. LINHOF 2-1/4 x 3-1/4 press camera is radically new exciting. F 2-1/4 F/2.5 2-1/4 T 35 2-1/4 x 3-1/4

DPL318 LT MISS J. JUDGE PAGE 2

ADOX 300 35mm camera has interchangeable film magazines. LEITZ ready with dual range SUMMICRON f/2 lens focusing to 19 inches with rangefinder. Also new LEICA MP black enameled version of M3 for professionals. Other new 35mm cameras are AGFA AMBI SILETTE and BRAUN COLORETTE both with interchangeable lens components, EDIXA 35mm prism and waist level reflex, and new REGULA cameras. In twin lens reflexes IKOFLEX IIC has built in meter. AGFA AUTO-MATIC 66 is 2-1/4 rangefinder camera with exposure meter which sets shutter speed automatically. Really novel electronic viewer accepts negatives, shows what positive prints will look like. 35MM 2-1/4 66 2-1/4 200

DPL318 LT MISS J. JUDGE PAGE 3

Among accessories is first eye level reflex camera prism in 2-1/4 size. BOLEX has camera to allow focusing through lens while shooting. Tons of other cameras and interesting items, no room to describe here. Tell readers be sure to see JAN. ISSUE for full report plenty of pictures.

WOLFMAN, KEPPLER, GROSSMAN: Modern's Editors at Photokina

MODERN TESTS



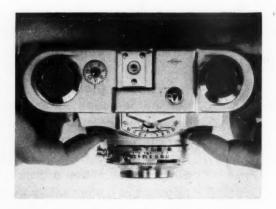
TECHNICAL ASSISTANCE BY NORMAN ROTHSCHILD

EYE-LEVEL REFLEX

THE JAPANESE CAMERA manufacturers, after devoting considerable time and effort to the manufacture of rangefinder 35mm cameras, seem about ready to turn their thoughts to the construction of eye-level reflex instruments. The Miranda, now in limited production (about 50 a month) is a product of the Orion Camera Company. It certainly is an interesting camera. It's a bit more compact than many of the East German prism reflexes made and it has a remarkably quiet focal plane shutter with linear speeds of 1, ½, ¼, 1/8, 1/15, 1/30, 1/60, 1/125, and 1/500 sec. Although the standard lens now supplied with the Miranda is a preset 50mm f/1.9 Zunow (which focuses from about 18 in. to infinity), the shallow body depth of the camera makes the adaptation of other lenses possible. Orion supplies an Exakta adapter which screws into the large thread of the camera body. You can then use all lenses with Exakta type bayonet mounts. Adapters for Leica and Contax lenses are also available, but these lenses can only be used on the Miranda for close-up or copying work. The camera back swings open for loading. The permanently fixed takeup spool is easily threaded. Both eye- and waist-level finders are available, but so far, the only finder to reach this country is the eye-level prism, which slides securely into position over an extremely fine grained ground glass.

Although the prism does not give an image as bright as that found on some other reflexes, the ground glass is extremely fine. Illumination falls off on the edges, but the prism image is remarkably sharp from corner to corner.

The camera body, a (Continued on page 191)



IMPROVED 35mm CAMERA

THE CRAPHIC 35 IS NOW available with a faster lens and an improved flash color code system. While retaining all the features of the already introduced unit including the novel push-button focusing with ribbed buttons projecting from either side of the body near the lens mount, the camera now can be had with a 50mm f/2.8 German made Graflar lens instead of the f/3.5, and the flash system can be used with just about any flashbulb-film combination. Previously the "Spectramatic Color Coding" worked only with No. 5 or 25 bulbs.

Here's how the new system works. First you adjust a rotating ring around the lens mount so that the pointer on it matches the guide number of the flashfilm combination you're using. You'll find the guide number on the back of the flashbulb carton. Now you focus the camera on your subject using the push button control with one finger on each button. As one button moves out, the other goes in. The camerato-subject distance appears in a small window on the top of the lens mount along with a small color band—red, yellow, green, orange or blue. A similar color band is located adjacent to the lens opening aperture scale. You now match the color on the aperture scale to the color on the distance scale and the camera is all set to take the flash picture accurately.

Other features are: German made MX sync shutter from 1 sec. to 1/300 plus bulb, double exposure prevention, split image rangefinder separate from the optical viewfinder, manual shutter cocking but with double exposure prevention, self timer, completely removable camera back. Price of f/2.8 Graphic alone is \$87.50—TED RUSSELL

THE LATEST





PISTOL FOCUSING MOUNT

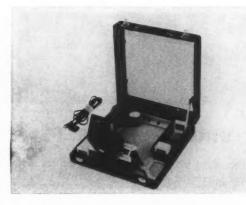
THE OLD ADAGE THAT a telephoto lens of great length for 35mm cameras should only be used on a tripod is being challenged by a fascinating new camera unit known as the Novoflex Follow Focus.

The Novoslex unit is essentially a focusing pistol grip mount for an f/4.5, 240mm or 300mm Novoslex lens. By tensing or releasing your trigger finger and using a camera or reflex housing with your camera you can steady the camera, follow action and snap the picture at the crucial moment. How well does it work in practice? There's only one way to find out. We lent an Exakta with a 240mm f/4.5 Novoslex and Follow Focus to magazine sports photographer Marvin Newman. He reports:

"The new Novoflex with Follow Focus trigger mount is of interest to any one who has to shoot action photography and wishes to use a telephoto lens. It has a definite advantage over any other handheld telephoto lens that I have ever used. With the same hand I could at last balance and also focus. I then had one hand free to transport the film and release the shutter.

"The device allows you to focus almost instantaneously. For example, if in covering baseball you are in the stands midway down the first base line, at the crack of the bat hitting the ball, you follow the play with the camera. As the fielder makes his play, whether he is the first baseman who is 80 feet away from you, or the shortstop who is 120 feet away, you will still be able to put either of them in focus in the time it takes the ball to be fielded.

"The lens mounting is spring loaded, operated by a smoothly moving trigger (Continued on page 191)



COMPACT PROJECTOR

TIRED OF LUGGING around a large heavy projector and screen to show your 35mm slides to groups of people? Do your friends get impatient waiting their turn to look into the small lens of your hand viewer? If you have \$99.50 to invest in the purchase of a really unique and magnificently engineered optical instrument, you can afford to fall in love with the Fer-Color Model 3 Slide Projector Outfit. Inside the slim, sturdy, all-metal housing, which is about the size of a lightweight typewriter, reposes a 12 x 12 inch screen, a folding projection unit with triple condensers and an f/2.8 Steinheil Cassar lens, space for carrying about 200 cardboard mounted slides in sequence, a power cord and a rheostat with voltmeter to make the unit adaptable to just about any foreign or domestic power source from 120 to 260 volts.

To set up shop, at home or away, you open the case with its typewriter cover-type locks. It then looks as in the photo above. For showing your slides to a small group of people, you plug the power cord into a socket, turn up the rheostat (picture page 190) to 110 volts where a small pin automatically stops it from turning further and you are ready to begin. A hinged metal strip turns down at the flip of a finger and the show is on. You insert the first slide in the carrier. You center it in place by pushing in the second slide. Now with the chromium knob on the back of the projector housing you focus the unit on the white paper screen located in the lid of the carrying case. It is extremely accurate and once focused, the image thrown on the screen by the 50 watt bulb, triple condensers, front (Continued on page 190)

MODERN TESTS (Continued)



SINGLE-LENS REFLEX

A NEW 21/4 x 21/4 single-lens reflex camera of novel and interesting design has just arrived from Japan—the Soligor 66. It sells for less than \$100.

One of the unusual features of the Soligor 66 is its upright shape. Camera construction appears to be substantial, with an all-metal die-cast body. The back panel is also rather sturdy.

The outstanding advantage of any single-lens reflex is, of course, that you focus through the taking lens. Parallax correction is something you never worry about. A critical point of any single-lens reflex is the kind of image you get on the ground glass. We found the image on the Soligor more than adequate, even at smaller openings. It was bright from corner to corner, the result of having a field lens under the ground glass. A clear, circular spot in the middle of the field lens makes focusing easier, with no interference from the concentric lines of the field lens itself.

When the shutter button is depressed, there is released a spring-loaded latch holding the mirror that reflects the image into the ground glass. A spring on the mirror pulls it up and out of the way during actual exposure.

The camera is equipped with an interchangeable 80mm, f/3.5 Soligor lens with preset diaphragm and non-revolving focusing mount. We found the ring controlling the preset diaphragm a bit too small for comfortable use.

Extension tubes are available for the Soligor and make 1:1 close-ups possible at distances down to 6 inches. However, with the lens mounted on extension tubes we found that about 3/16 in. of the ground glass image is blacked out.

Film travels from the bottom to the top of the film chamber. To load you attach film to the take-up spool and then line up arrows on the paper film back with the two red dots on either side of the camera. A set lever is then depressed to start the film counter. From then on film (Continued on page 190)



UNIQUE CAMERA

MOST PEOPLE SIT and dream of their dream cameras. But not everyone. Cesare Tiranti of Rome, Italy dreamed, designed and built his. And while the Lumma Report may be his ideal, it may or may not be your photographic kettle of fish.

Basically, the Lumma is a 21/4 x 31/4 eye-level twin-lens reflex camera with two sets of lenses mounted on a turret. It accepts 120 roll film, 6½ x 9 cm sheet film or plates and 2¼ x 3¼ film packs depending on which camera back is in place. The Lumma has two taking lenses in Compur shutters (1-1/500 sec.), a 105mm f/4.5 Schneider Xenar normal focal length lens and a 65mm f/6.8 Schneider Angulon wide angle lens. Each of these two lenses has a viewing lens of the same focal length as the taking lens. There's a 105mm f/4 and a 65mm f/3.5. All four lenses are mounted on the face of the turret. The finder lenses produce an upside down unreversed image on a ground glass with field lens on the back of the camera. You can use the whole ground glass for focusing and composition or a portion which you view through an eye cup and magnifier. In either case, the image is seen upside down. For action, there's a frame finder with separate frames for the two focal length lenses. Two wheels located within easy reach of either the right handle or left handle control the micrometer movement which racks the entire turret in and out, from about 3 ft. to infinity. To change lenses, you push a button on the face of the camera and rotate the turret. It turns easily and snaps into place. As you focus the camera the footage for the two focal length lenses can be read from two revolving wheels on the top of the unit. There is no depth-of-field scale. There are two European-type push on flash contacts one on either side of the front of the camera near two heavy accessory clips which can be used for flashguns as in the picture above. There are two shutter release buttons on the body of the camera quite close to the handles so you (Continued on page 191)



AUTO-TELE LENS

THE SCHNEIDER 135MM F/3.5 Tele-Xenar lens for the Exakta or Pentacon is the first fully automatic diaphragm true tele lens for miniature single-lens reflex cameras. The automatic diaphragm operates much like that employed on the normal focal length 50mm Schneider f/1.9 Xenon. As you press the shutter release on the lens mount itself, the aperture blades slowly shut to the predetermined opening. At the same time a small spring is compressed in the mount. When your finger releases pressure this spring will cause the lens to open again to maximum aperture. Turning the collar on the release button sets the lens for non-automatic operation when wanted. The lens stops down to f/22 and focuses as close as 5 feet. It has a clearly marked depth-offield scale and an infrared focusing mark. The automatic diaphragm operated easily, requiring little additional pressure above the normal amount applied to the camera's shutter release.

The optical quality of the Tele-Xenar has been well established. The new black finished lightweight mount handles well, producing a balance point pretty close to the camera body. The added length of the release button on the lens which fits over the normal Exakta button takes a bit of getting used to and some people with small hands may find the stretch a bit uncomfortable. The automatic feature, however, is a great improvement over the ordinary or preset lens mount, in 135mm size particularly. It enables you to hold the camera body steadily and securely with both hands while the lens is stopped down and the shutter released. It should prove valuable in action photography allowing you to focus at full aperture and then stop down to take the picture before the action is over.

The automatic diaphragm worked effectively each time used while the lens was in our hands (some three months). At \$149.50, including lenshood and two lens caps, it's a handy piece of equipment for any Exakta or Pentacon user.—NORMAN ROTHSCHILD



MEDIUM PRICED 35mm

YOUNGEST MEMBER OF the Kodak 35mm clan, the new Kodak Signet 40 comes already trained for single hand operation, if you so desire. Major controls, located under your right hand as you hold the camera, let you focus, fire, and advance the film. Film is advanced by a swift, horizontal motion of your right thumb against a lever on the back of the camera. However, to keep your left hand busy, you cock the shutter by pressing downwards with left forefinger on a small knob. This is on the left of the lens mount but seen at right in illustration.

The Signet 40 has a 46mm, f/3.5, three-element Kodak Ektanon lens which focuses from two feet to infinity. Lens apertures are from f/3.5 to f/22. The Kodak Synchro shutter has speeds from ½ to 1/400 second, plus Bulb, and there's double exposure prevention. You can make intentional double exposures by pushing a release button.

A coupled range- and viewfinder gives a horizontally superimposed image in a small yellow triangle, while the field of view markings are clearly engraved in red and black.

Lightweight and sturdy, the Signet 40 is made of plastic, has dull metal trim. Its back opens easily with a downward push on the catch at one side.

A film counter, on top of the camera, tells you the number of exposures you have left. Flanking the exposure counter, as you look at the picture above, is the film reminder dial, to the left, and combination film-wind crank and exposure guide, to the right.

Sync, built into the side of the Kodak Signet 40, is designed for use with a special Kodak flashgun, the Kodalite Super M Flashlite which attaches right to the camera body.

The Signet 40 comes with a filter retaining ring, cloth neckstrap, and case. The case, incidentally, has the fortunate feature of a tough metal-like cup which protects the lens from bumps and shock if dropped or mistreated. Price is \$65.—THE END



1-stop Shopping,

—including the right kind of camera kit to give your wife for Christmas...25 personalized photo-postcards for about 90 cents...how to make a lot of prints and still have time for TV...the camera that comes with two flash reflectors, and why...a long gun for a fine slide projector...and finest grain in 7 minutes

Shopping guide

Every year at this time we like to talk about Kodak Photo Outfits. For three reasons:

 We don't know of a more universally acceptable gift for anyone from an 8-year-old to a greatgrandmother.

 It seems only natural that a photographer should give a photographic gift.

 It's the way to do a good share of your Christmas shopping with one stop.

This year there are 17 outfits to choose from—still, movie, and Photo-Hobby—from the low-priced Holiday Outfit to the new Brownie 500 Movie Outfit. And they are all boxed in the brightest, most colorful packages yet...so attractive you won't want to wrap them. Here are a few suggestions:

Any boy or girl would be given a good start on the most wonderful hobby in the world with any one of these flash outfits: the Brownie Holiday Flash Outfit, \$9.95; the Brownie Hawkeye Flash Outfit, \$13.95; the Brownie Bull's-Eye Flash Outfit, \$19.75; or the Kodak Duaflex IV Flash Outfit. All come complete with camera, Flasholder, bulbs, batteries, film, and instruction booklet—all ready to take pictures on Christmas morning. Or, you can give the Kodak Duaflex IV Deluxe Outfit with a Kodak

Duaflex IV Camera with a Kodar f/8 Lens, field case, Flasholder, batteries, film, and instruction booklet, \$33.75. A superb gift.

(If your youngster already has a good camera, you might consider a Kodak Photo-Hobby Outfit, which gives him everything he needs to develop and print his own pictures, \$9.95 and \$16.95.)

For present or potential color-slide enthusiasts, there's the Kodak Pony 135



Camera Outfit, \$49.65, and the Kodak Town and Country Outfit with a Kodak Bantam RF (for rangefinder) Camera, \$65.45. Both outfits include camera, field case, Flasholder, and instruction booklet.

For the movie fan there are two new Brownie Movie Camera Kits and two Brownie Movie Outfits ranging in price from \$34.90 to \$132.95. Look at these with your wife in mind. With the kids growing up, she'll make a movie record that will be priceless in years to come.

That's the line-up. Now see your Kodak dealer as soon as you can. Christmas has a habit of getting here before you know it.

Personal post cards

There ought to be a lot of ways you could use photographic post cards made from your own negatives—as Christmas cards, as personalized post cards for notes to your friends, as sales tools in your business, and so on.

You can get Kodak Post Cards in the standard 3½ x 5½-inch size. One side is plain—for your message and address; the other comes with either an "Azo" or "Kodabromide" emulsion. Prices start at 90¢ for 25 cards. Cheap enough.

No-fuss color

We keep hearing about photographers who put off processing their own Ektachrome Film. The comments all come from the people who haven't even tried it yet. Too much trouble, says one. Don't have an accurate enough thermometer, says another. Couldn't keep the solutions straight, says a third. Nothing but excuses, we say.

In the first place, processing your own color transparencies requires only a few more steps than black-and-white processing. In the second place, you don't even need a darkroom if you use a Kodak Day-Load Tank. And, in the third place, we have a kit that contains everything you need to do the job, including colored containers that keep the solutions straight for you.

Ask your Kodak dealer to show you a Kodak Ektachrome Processing Kit, 35mm, and here's what you'll see all packaged in a handy box you take anywhere: a Kodak Day-Load Tank that loads in full daylight; a 1-pint-size Kodak Ektachrome Processing Kit, Process E-2, with all the chemicals and instructions required; a highly accurate



thermometer; a 16-oz. Kodak Darkroom Graduate; six polyethylene storage containers with spillproof polyethylene covers and capped pouring spouts (they're in different colors, coded to match the color-coding of the chemical packets in the Processing Kit); a Kodak Stirring Paddle, two plastic film clips, 100 Kodak Ready-Mounts, two trimming guides, and four yellow polyethylene Kodaslide Boxes to hold the slides. There's nothing more you'll need except your exposed rolls of Kodak Ektachrome Film.

The price for all this is only \$24.75 at your Kodak dealer's. And it's the easiest way we know of to get started processing your own transparencies.

No-fuss Color

T-V special

We were talking to a man who's a TV enthusiast as well as an avid darkroom worker. Turns out he has plenty of time for both.

Here's how he does it. About an hour before his favorite show comes on, he gallops down to his darkroom and gets



to work. He uses Kodak Liquid Chemical Preparations so it only takes a minute or two to pour them in his trays, add water, and be all set to print.

Off go the room lights and out comes the paper. Usually it's Kodak Medalist Paper because it gives him maximum control, comes in a choice of five surfaces and four printing grades, as well as having good printing speed. And it develops in 60 seconds in Kodak Versatol Developer.

If our friend is working with a new negative, he makes a test print with a Kodak Projection Print Scale—one test shot and he knows exactly how to expose the final print, even has a good idea of correct times for dodging or burning in local areas. No time wasted (and no paper, for that matter).

Half a dozen good enlargements later he takes the prints from the fixing bath and gives them a quick rinse in running water, and then pops them into a tray of Kodak Hypo Clearing Agent. Three minutes of agitation and they're back in the water, where only 10 minutes of washing will leave his single-weight prints ready to dry—and the double-weights only need 20. A Kodak Automatic Tray Siphon keeps the wash water circulating for him while he cleans up. Next the prints are wrapped in a Kodak Blotter Roll to dry till morning.

Try this if you want to do some fast darkroom work on an interesting TV night! You'll find you'll get just as good quality prints in far less time... and be ready for, among other pleasant shows, Kodak's "The Adventures of Ozzie and Harriet." Every week, ABC-TV.

Prints on the double

Here's something to keep in mind when you want to bang out some enlargements and have them dry in practically no time at all. Kodak Resisto Rapid Paper can be developed, fixed, and washed in 7 minutes, dried in 10 minutes. Very similar to Kodabromide Paper in printing speed and neutral black tone, Resisto Rapid is made with a specially treated base that makes it water resistant. Comes in white smooth lustre in grades 1-4, single-weight only. Newspapers use a lot of it.

Long gun for Signets

The regular 5-inch lens on your Kodaslide Signet 500 or 300 Projector is fine for shows at home—but how about for larger audiences, say at church or school? Answer's easy. You just pull out the regular lens, and replace it with the Kodak Projection Ektanon Lens, 7-inch f/3.5, specially made for Koda-



slide Signet Projectors. Permits a longer "throw" with equal image size, in club or classroom. Price, \$32.50, at your Kodak dealer's.

Grain? What's that?

If you haven't tried Kodak Panatomic-X Film yet, you should. There is no other film that gives you the same *combina*tion of micro-fine grain and image sharpness. Properly exposed and developed, it produces negatives that you have to blow up beyond the capacity of most enlargers before you can find any objectionable grain. Its image sharpness will test the quality of your very finest lens. It develops in seven minutes. It dries so fast you can start printing from dry negatives about half an hour after your film went into the developing tank. It has a balanced panchromatic sensitivity that gives you crisp, brilliant tone rendering. The exposure indexes are 25 daylight, 20 tungsten. There's plenty of exposure latitude and underexposure tolerance.

All this is a tremendous boon to the miniature-camera owner. With Panatomic-X you can take a portion of a 35mm or No. 828 negative and blow it up to a top-quality salon-size print. For roll film cameras too, in No. 120, 620, and 127 sizes.

Two reflectors



You'll find in this magazine our report on the new Kodak Signet 40, the first camera we know of that comes complete with flasholder and two flash reflectors. Now, there's a real reason for this. No one flash reflector, no matter how carefully designed, can give you the same efficiency with all types of midget bulbs, M-2's, No. 5's and No. 25's. So we furnish two reflectors. The 4-inch reflector is precisely designed to wring every possible lumen out of Nos. 5 and 25 bulbs; the 3-inch reflector is tailored to the smaller M-2 bulbs. On top of this, the reflectors have a mirror-bright Lumaclad finish, which reflects quite a bit more light than the usual satin finish. And the reflectors can't bend out of

What this means is that no matter what bulb you use with your Signet 40, you get the kind of efficiency that means higher guide numbers, flash shots from farther back. All this, plus the camera too, for only \$65.00.

Prices include Federal Tax where applicable and are subject to change without notice.

Kodak

... here it is—the first new miniature designed expressly to make the most of the new films and the new flash sources

the new Kodak SIGNET 40 Camera

When you step out with a Signet 40—and a proud day that will be—you'll be leading the parade. For your "40" complements all the new advances in films, in flash, in picture-making techniques.

It's a superb camera... at a remarkable price—\$65.00, including Flasholder and the dual reflectors.

To be specific-

The new Kodak Signet 40 Camera

- loads with all standard 35mm films.
- offers shutter speeds from 1/5 to 1/400 second.
 - focuses accurately down to 2 feet.
- has a brilliant f/3.5 lens that can be stopped down to f/22 for those deeply detailed shots the new films have made so rewarding.
- has two flash reflectors—instantly interchangeable—so that you get the maximum illumination from the bulbs you use.
- gives you built-in synchronization for M, F, and X flash.

— and real compactness. Even with Flasholder attached, the "40" balances nicely, feels exactly right.

Plus, for smooth precision

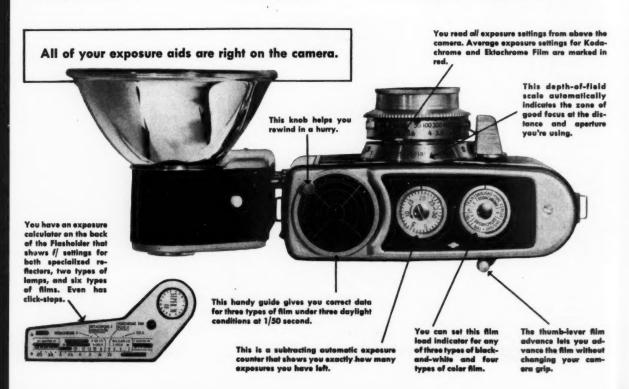
- a double-race ball-bearing lens mount, velvet-smooth in winter and summer, and lifetime lubricated at the factory.
- and self-adjusting V-bearings in the famous Signet rangefinder, for absolute freedom from slack and play at all ranges.
- -and precision film channeling for safe, smooth film travel.
- and exactly the right construction material for its function at each point, with traditional Kodak quality control at every stage of construction.

Plus, for convenience

— a rapid thumb-lever film advance that you can operate without even shifting your hand grip or taking the camera down from your eye.

- and swift "drop-in" film loading that requires no threading at all.
- all sorts of handy exposure information right on the camera and Flasholder—no fumbling with extra guides and instruments.
- and all the operating controls right where your fingers naturally fall.
- and automatic film stop and exposure counter.
- and rapid *single*-window rangefinding and viewfinding, with a colorcontrasting triangular rangefinder area centered in the viewfinder field.

You're going to see a lot of the Kodak Signet 40 Camera. Make it a point to go to your Kodak dealer's and examine it. Until you do, you can't appreciate all the niceties of detail, the "rightness" of it, its comfortable lightness, its operating conveniences. Then line the Signet 40 up with any other camera in its price class. We think you'll decide the Signet 40 is the camera for you. But first, look over the details on these two pages—everything is in the \$65.



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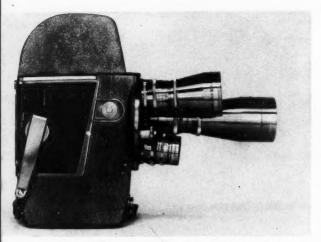
EAS



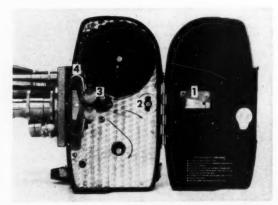
Illustration 8/10 actual size. Camera dimensions: 43/4" x 31/4" x 21/2". Weight: approximately 16 oz.

Price includes Federal Tax and is subject to change without notice.

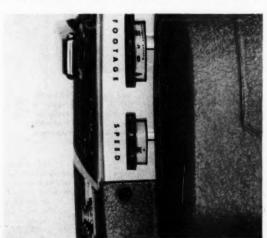
Kodak



This is the Revere C-103, a 16mm spool loaded movie camera. The three-lens turret is of offset design, permitting a wide combination of lenses. Shutter release button can be reached easily by index finger.



For automatic threading, film is cut (1) and control knob (2) adjusted. Film is inserted into automatic threading slot (3) and enters formers (4) when shutter is released.



Location of the footage indicator and fps dials is a distinct advantage. Cable release thread mounts are located just ahead of fps indicator dial.

SELF THREADING IS 16MM REVERE'S TOP FEATURE

SPECIAL

THE REVERE C-103 is one of the few really new 16mm spool loaded movie cameras to make an appearance on the amateur market in quite a spell. It looks quite different from most movie cameras currently available in the United States and has several features not usually found in cameras in its price class.

The C-103 has a 100-ft. film capacity—either single or double perforated stock. The outstanding feature of the camera is the provision for automatic film threading, as shown in the photograph.

Just how does the automatic threading work?

You first clip the end of the film leader with the film cutter provided inside the hinged door of the camera.

The loaded spool is then placed on the upper spindle of the camera.

Now, turn the black knob located between the feed and take-up spools clockwise, bringing the film formers into proper position.

Next, insert the clipped end of the film into the automatic thread slot located at the feed sprocket wheel.

Then press the shutter release button. The film travels through the feed sprocket into the formers, and past the takeup sprocket. The proper loop is formed automatically.

Finally, you engage the end of the film with the takeup spool and close the door. The formers spring back to their original position when the door is shut. The film gate must remain closed throughout the automatic threading procedure. You can thread film through the camera manually, if you choose. The gate is opened and normal procedure followed. However, the camera door cannot be shut unless the gate is closed first.

The three-lens turret follows the standard Revere design. Each lens has a matched viewfinder that is brought into position when the lens you want is moved in front of the shutter. Lenses are mounted in an offset manner, making it possible to seat a ½-in. wide-angle lens and a 6-in. telephoto lens on the turret at the same time. (Continued on page 192)

ZOOM IN WITH KEYSTONE 8MM MOVIE CAMERA

THE KEYSTONE K33-Z Autofocus zoom lens camera is the first 8mm movie camera on the market that incorporates a variable focal length lens as standard equipment. Until now, if you yearned for a zoom lens you most likely bought camera and lens separately.

But why a zoom lens? With the zoom lens you bring together into one unit the abilities of three movie making lenses—wide-angle, normal, and telephoto. In addition to the invaluable compactness of a zoom lens, this means that you can now go from long shot through medium shot to close-up in one continuous movement. Cuts can be eliminated completely.

The zoom-type lens is composed of several elements—one or more of which are movable. As the elements move, the focal length of the lens changes.

The f/2.4 zoom-type lens on the Keystone is manufactured by the Ednalite Optical Co., Inc. Two of its eight elements move back and forth when the control lever is rotated. Focal lengths range from 9.5mm or wide-angle, to 28.5mm or telephoto. The image at 28.5mm is 3X the size of the one at 9.5mm.

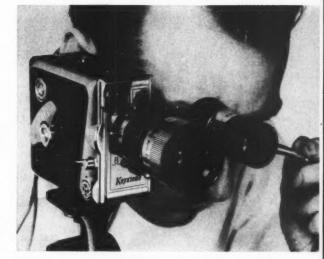
A viewfinder, which in itself is a zoom lens, is synchronized to the taking lens. As the focal length of the zoom lens is varied, the image in the viewfinder changes. The exact size of the image is shown at all times. More important, the effect of the zoom can be followed as it is made.

The Ednalite zoom lens has a substantial feel to it. To ensure a safe coupling of the lens to the camera, a tongue has been fixed underneath the lens. A thumb screw holds the tongue firmly to the camera body.

While the Ednalite zoom lens is equipped with a regular D mount, the manufacturer advises against using it on other cameras. The tongue and screw arrangement cannot be used on any but the K33-Z.

It is felt that coupling to other cameras would be only superficial and thus endanger the lens. However, other D mounted lenses can be used on the K33-Z. An additional viewfinder is located on top of the camera.

We took the Keystone on some pretty rugged movie making trips. In one instance we tried photographing sail-



The Keystone K33-Z Autofocus zoom camera should be tripod-mounted for best results. Lever varies focal length of the lens from 9.5mm to 28.5mm.



Zoom lens, left and zoom finder, right, are synchronized. Barrel of lens is marked for intermediate focal lengths between 9.5mm and 28.5. Diaphragm control has click stops and is operated by small lever, upper left.

boats from another sailboat, while hand holding the camera.

The main difficulty we found with the Keystone is the short length of the viewfinder. You must get your head right alongside the camera body in order to sight through the eyepiece. We pressed the camera against our head for added steadiness and found it uncomfortable after a time. Actually, any camera equipped with a zoom lens should be mounted on a tripod.

The position of the zoom viewfinder on the left side of the K33-Z makes it neces- (Continued on page 192)



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CAMERA GUIDE

(Continued from page 103)

ers; came with Graphic or Graflex back (Graflok back is now available as accessory); drop bed; linked focusing track; dual focusing knobs; provision for attaching rangefinder or flash.

Last List Price: Either model, \$176 to \$191, depending on lens.

Last Reported Used Selling Price Range in 1956: 4 x 5, with f/4.5 Optar, \$91-\$120

Special Identification Points: 1. Differentiated from previous models by having dual focusing knobs; 2. Had bright finish metal parts (version supplied during World War II had dull finish).

PACEMAKER SPEED GRAPHIC

Film Size: Available in following models: "23" for 21/4 x 31/4, "34" for 31/4 x 41/4, and "45" for 4 x 5

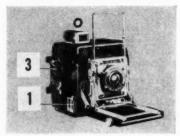
Introduced: 1947 (Currently in production)

Standard Lens: "23," 101mm; "34," 127 or 152mm; "45," 135 or 162mm.

Shutter: Graflex focal plane, 1/30 to 1/1000 sec., plus T. Note: Current Pacemaker focal plane shutters have factory installed sync.

Flash Sync: Factory installed in focal plane shutter. For FP bulbs at high shutter speeds. Front shutter—see note, beginning of Speed Graphic section.

Special Features: Rising, tilting, shifting front; body release for front and back shutters; parallax correction for both optical and frame finders; folding infinity stops; adjustable handle strap. Other features same as Anniversary model. Note: Current "34" and "45" Pacemaker models have Ektalite field lens. All current Pacemaker models come



with Graphic, Graflex, or Graflok back.

Note: Latest 4 x 5 version, introduced in January, 1955, has flexible frame front finder and parallax adjustment on rear peepsight. It is also available with Graphic Multi-Cam rangefinder including built-in beam focusing device and new optical viewfinder with automatic parallax correction.

Last List Price: With lens, less rangefinder: "23," from \$293.25; "34," from \$292.50; "45," from \$292.50.

Last Reported Used Selling Price Range in 1956: "23," f/4.5 Ektar, \$130-\$166; "34," f/4.7 Ektar, \$135-\$179; "45," f/4.7 Optar, \$159-\$193

Special Identification Points: 1. Only Speed Graphic model with body release for both focal plane and front shutters; 2. After May, 1951, "34" and "45" models were supplied with Ektalite field lens; 3. Version supplied before July, 1950, came only with Graphic or Graflex back; version supplied after July, 1950, has Graphic, Graflex, or Graflok back.

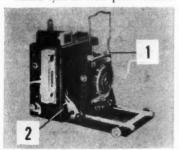
MINIATURE SPEED GRAPHIC

Film Size: 21/4 x 31/4 only

Introduced: 1938 Discontinued: 1947 Standard Lens: 4-in.

Flash Sync: See note, beginning of Speed Graphic section.

Special Features: Double extension bellows; interchangeable holders; came with Graphic or Graflex back; dual focusing knobs; factory installed sync in focal plane shutter.



Last List Price: From \$120, depending on lens.

Last Reported Used Selling Price Range in 1956: With f/4.5 Ektar, \$65-\$89

Special Identification Points: 1. Folding, instead of retracting, frame finder as in Pacemaker "23"; 2. No body shutter release.

The following Graphic Cameras do not have focal plane shutters.

PACEMAKER CROWN GRAPHIC

Note: This camera is similar throughout to the Pacemaker Speed Graphic, except that it does not have a focal plane shutter.

Film Size: Available in $2\frac{1}{4} \times 3\frac{1}{4}$, $3\frac{1}{4} \times 4\frac{1}{4}$, and 4×5 models.

Note: Version introduced in January, 1955, has new optical viewfinder with automatic parallax correction. It is also available (in "45" model only), at extra cost, with built-in rangefinder which couples (by means of individual cams) with a wide range of lenses.

DEC





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Instrument

that tells you

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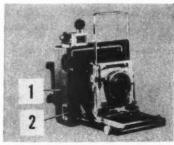
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\$12<u>5</u>0 110-125 Volts AC-DC With 48-page manual, 6-ft. cord, paper speed chart Introduced: 1947 (Currently in production)

Flash Sync: Depends on front shutter installed. See note, beginning of Speed Graphic section.

Last List Price: With lens, less builtin rangefinder: "23," from \$255.75; "34," from \$243.50; "45," from \$243.50. With lens and built-in rangefinder: "45," from \$281.45



Last Reported Used Selling Price Range in 1956: With f/4.5 Ektar: "23," \$105-\$143; "34," \$108-\$147; "45," \$118-\$161

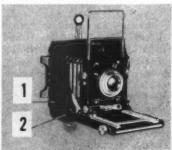
Special Identification Points: 1. No focal plane shutter; 2. Body shutter release.

CENTURY GRAPHIC $(2\frac{1}{4} \times 3\frac{1}{4})$

Introduced: August, 1949 (Currently in production)

Standard Lens: 101mm, f/4.5 or 105mm, 1/3.7 Ektar, or 103mm, f/4.5 Graflex Trioptar or Graftar. Some were also supplied with 101mm f/4.5 Optar.

Flash Sync: Depends upon shutter fitted to camera. Early Century shutters had sync for class F (SM, SF) bulbs 1/50-1/200; M up to 1/25; later versions; X sync.



Special Features: Double extension bellows, drop bed, interchangeable lensboard; rising, tilting, shifting front; Graflok back with removable focusing panel; dual focusing knobs; folding infinity stops; adjustable handle; provision for attaching rangefinder, flash, or optical finder.

Last List Price: With Graftar lens, \$132.50

Last Reported Used Selling Price (Continued on page 124)



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- tion necessary with all films.

 Kills glare, color "wash-out"

 Emphasize blue skies without affecting background colors
 • See clearly through water and glass
- Discover details your eye can't see
- Easily attaches to standard adapter · Movies best fade-in, fade-out device

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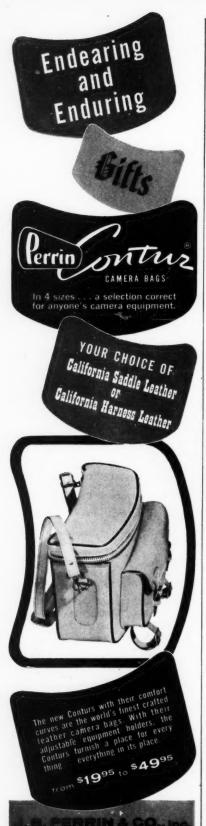
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CAMERA GUIDE

(Continued from page 123)

Range in 1956: With f/4.5 Ektar, \$64-\$80

Special Identification Points: 1. No focal plane shutter; plastic body; 2. No body shutter release.

PLAUBEL MAKINA

Manufacturer: Plaubel, Feinmechanik & Optik, Frankfurt/Main, Germany.

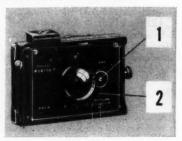
Importer: Formerly imported by Willoughbys-Wholesale, 110 W. 32nd St., New York 1, N. Y.

Flash Sync: Type 1 (X sync) can be added to any non-sync Plaubel Camera listed. See page 69 for details.

MAKINA 6.5 x 9cm CAMERA

Film Size: 6.5 x 9cm (2½ x 3½). All models accept interchangeable backs for plates, sheet film, filmpack, roll and 35mm film. Also available is accessory focal plane shutter back.

MAKINA I (1920 model)



Introduced: 1920 Discontinued: 1932 Lens: Until 1924, came with fixed (unremovable) 100mm, f/4.5 Anticomar; after 1924, came with 100mm, f/2.9 Anticomar whose front elements could be replaced with accessory components for wideangle and telephoto operation.

Shutter: Compur (after 1924, came with improved Compur, with speeds to 1 sec., plus B & T).

Flash Sync: See note above.

Special Features: Interchangeable backs; frame-type and Newton optical-type viewfinders.

Last List Price: Not available.

Last Reported Used Selling Price

Range in 1956: \$22-\$41

Special Indentification Points: 1. Differentiated from later (1932) version by not having rim-set shutter; 2. Made only with black finish.

MAKINA I (1932 model)

Introduced: 1932 Discontinued: 1933 Lens: 100mm, f/2.9 Anticomar with interchangeable front elements.

Shutter: Compur IS, 1 to 1/200 sec.,

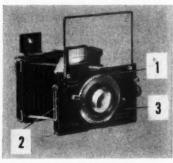
plus B & T and self-timer.

Special Features: Same as Model I, 1920-1932 version.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Differentiated from earlier versions of Makina I by having rim-set shutter; 2. Differentiated from Makina



II by having lens diaphragm settings on side, instead of front of camera; 3. Made only with black finish.

MAKINA II

Introduced: 1933 Discontinued: 1939 Lens: 100mm, f/2.9 Anticomar. Front elements interchange with following accessory objectives: 210mm, f/5.4 Tele Makinar; 210mm, f/6.3 Tele Makinar; or 73mm, f/6.8 Wide Angle Orthar.

Shutter: Compur IS, 1 to 1/200 sec., plus B & T and self-timer.

Flash Sync: None. See note, beginning of Makina section.

Special Features: Coupled rangefinder; frame finder; Newton optical finder with parallax correction; interchangeable backs.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: \$49-\$74



Special Identification Points: 1. Coupled rangefinder; 2. Differentiated from later Makina IIS by not having all lens elements in front of shutter (see description of Makina IIS lenses); 3. From 1933 to 1938, finished only in black; after 1938, was supplied with chrome finish.

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MAKINA Ila

Introduced: 1946 Discontinued: 1948 Lens: 105mm, f/4.5 Xenar or 100mm, f/4.2 Anticomar, with fixed (front elements unremovable) mounts.

Shutter: Compur OS, 1 to 1/400 sec., plus self-timer.

Flash Sync: None. See note, beginning of Makina section.

Special Features: Same as Makina II. Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Shutter speeds to 1/400; 2. Fixed (unremovable) lens: 3. Self-timer.

MAKINA IIb

Introduced: 1946 Discontinued: 1948 Lens: 100mm, f/4.2 Anticomar with fixed mount.

Shutter: Compur O, 1 to 1/200 sec. (no self-timer).

Flash Sync: None. See note, beginning of Makina section.

Special Features: Same as Makina II, but had no self-timer.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Fixed (unremovable) lens; 2. Shutter speeds to 1/200, instead of 1/400 sec. as in Makina IIa; 3. No self-timer.

MAKINA IIS (1936 model)



Introduced: 1936 Discontinued: 1948 Lens: All lenses for this and subsequent models have quick-change mounts for removing and inserting lenses by a 3/4 turn. Each lens is a complete unit (all elements operate in front of shutter). Standard lenses are 100mm, f/2.9 or 100mm, f/4.2 Anticomar. Accessory lenses are 190mm, f/4.8 Tele Makinar, or 73mm, f/6.8 Rapid Wide Angle Orthar.

Shutter: Compur IS, 1 to 1/200 sec., plus B & T and self-timer.

Flash Sync: None. See note, beginning of Makina section.

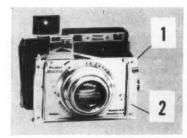
Special Features: Quick-change lens mounts; all lens elements operate in front of shutter. Other features same as Makina II. Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: \$74-\$91

Special Identification Points: 1. All lens elements in front of shutter; 2. From 1936 to 1939, was supplied with chrome finished front plate; from 1940 to 1948, was supplied with black finish front plate.

MAKINA IIS (1948 model)

Introduced: 1948 Discontinued: 1949 Lens: Same as Makina IIS, 1936 model.



Shutter: Same as Makina IIS, 1936 model.

Flash Sync: Factory installed, X only. Special Features: Factory installed flash sync with special supporting handle. Other features same as Makina IIS, 1936 model.

Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Flash contact on back of front plate; 2. Made with black or chrome finish.

MAKINA III

Introduced: 1949 Discontinued: 1953 Lens: Same as Makina IIS.

Shutter: Compur IS, 1 to 1/200 sec., plus B & T (no self-timer).

Flash Sync: Factory installed, M and

Special Features: Shutter-locking device for ground-glass focusing; without setting shutter at T. Other features same as Makina IIS, 1948 model.



Last List Price: Not available.

Last Reported Used Selling Price
Range in 1956: Not available.

Special Identification Points: 1.

Knobs for MX selection and shut-

(Continued on page 126)

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CAMERA GUIDE

(Continued from page 125)

terlock; 2. No self-timer; 3. Compur IS (speeds to 1/200) instead of Compur-Rapid (speeds to 1/400) shutter as in Makina IIIR; 4. Made only with chrome finish; 5. Earliest version had flash contacts on back of front plate; later versions had flash contacts on front plate.

MAKINA IIIR

Introduced: 1953 (Currently in production)

Lens: Same as Makina IIS.

Shutter: Compur-Rapid, 1 to 1/400 sec., plus B & T (no self-timer).

Flash Sync: Same as Makina III. Special Features: Compur-Rapid

Special Features: Compur-Rapid Shutter. Other features same as Makina III.

Last List Price: With f/2.9 Anticomar, \$393; with f/4.2 Anticomar, \$372.



Last Reported Used Selling Price Range in 1956: With 1/2.9 Anticomar, \$199-\$219

Special Identification Points: 1. Compur-Rapid (speeds to 1/400) instead of Compur IS (speeds to 1/200) shutter as in Makina III.

MAKINETTE 3 x 4cm

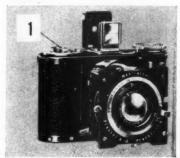
Film Size: 16 pictures 3 x 4cm (11/4 x 15/8 in.) on 127 roll film.

Introduced: 1931 Discontinued: 1935 Lens: 50mm, f/2.7 Anticomar or 45mm, f/2 Supracomar.

Shutter: Compur, 1 to 1/300 sec., plus B & T.

Flash Sync: None. See note, beginning of Makina section.

Special Features: Newton optical-type finder.



Last List Price: Not available.

Last Reported Used Selling Price

Range in 1956: With f/2.7 Anticomar, \$22-\$33

Special Identification Points: 1. Only Makina camera using roll film exclusively.

MOVIE CAMERAS

SINCE WORLD WAR II, amateur movie making has grown at a rate to surprise the most optimistic. With the great interest in 8mm and 16mm, has come a tremendous variety of camera models. This year, for the first time anywhere, the Camera Buying Guide presents essential information about many of the popular makes and models, new and used.

BELL & HOWELL

Information on a number of Bell & Howell movie cameras is at end of movie section. Bell & Howell listing begins on page 176.

BOLEX

Manufacturer: Paillard A. G., Sainte-Croixe, Switzerland Importer: Paillard Products, Inc., 100

Sixth Ave., New York 13, N. Y.

BOLEX 8mm ROLL

Film Capacity: All models except H-8 take 25-ft. rolls of double-8mm film. H-8 takes up to 100-ft. rolls of double-8mm.

BOLEX MODEL L-8 (1940 version)

Introduced: 1940 Discontinued: 1947 Lens Mount: Special L-8

Viewfinder: Telescopic; built-in masks for 12.5, 25, and 36mm lenses.

Operating Speeds (f.p.s.): 16 only. Shutter Speed At 16 f.p.s.: 1/30 sec. Film Run On One Winding: 6 ft.

Special Features: Continuous run lock; provision for cable release; visible film-end indicator; footage counter resets automatically.

Last List Price: With 1/2 in., f/2.8 Yvar focusing lens, \$119.50

Last Reported Used Selling Price Range in 1956: With f/1.9 focusing lens, \$50-\$64

Serial Numbers: 50,000 to 58,000 Special Identification Points: 1. Operating speed of 16 f.p.s. only.

BOLEX MODEL L-8 (1947 version)



Note: This model is the same as the earlier 1940 version, but has operating speeds of 12, 16, 24, and 32

Introduced: 1947 Discontinued: 1953 Last List Price: With 1/2 in., f/2.8 Yvar fixed focus lens, \$97

Last Reported Used Selling Price Range in 1956: With f/2.8 Yvar fixed focus lens, \$44-\$60

Serial Numbers: From 58,000

Special Identification Points: 1. Differentiated from earlier 1940 version by having variable operating speeds.

BOLEX MODEL C-8

Introduced: 1953 (Currently in pro-

Lens Mount: D

Viewfinder: Optical zoom type, for 12.5, 25, and 36mm lenses.

Operating Speeds (f.p.s.): 8, 12, 16, 24, 32, 48, 64

Shutter Speed At 16 f.p.s.: 1/35 sec. Film Run On One Winding: 7 ft.

Special Features: Single frame exposure; continuous run lock; provision for cable release; audible film-end indicator; footage counter resets automatically.



Last List Price: With 1/2 in., f/2.5 Kern Paillard fixed focus lens,

Last Reported Used Selling Price (Continued on page 128)

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CAMERA GUIDE

(Continued from page 127)

Range in 1956: With f/2.8 Yvar fixed focus lens. \$47-\$63

Serial Numbers: From 410,000

Special Identification Points: 1. Optical zoom finder, instead of masks, as in L-8; 2. Further differentiated from L-8 by having D mount; 3. Differentiated from B-8 by having single-lens mount, instead of turret.

BOLEX MODEL B-8

Note: This model is similar to the C-8, but has a two-lens turret and sliding viewfinder attachment for 5.5 or 6.5mm lenses.

Introduced: 1953 (Currently in production)

Last List Price: With 1/2 in., f/2.5 Kern Paillard fixed focus lens, \$119.50

Last Reported Used Selling Price Range in 1956: With f/2.5 Kern fixed focus lens, \$65-\$81

Serial Numbers: From 400,000

Special Identification Points: 1. Differentiated from C-8 by having twolens turret; 2. Further differentiated by having sliding viewfinder attachment for wide-angle lenses.

BOLEX MODEL H-8 (1937 version)

Introduced: 1937 Discontinued: 1941

Lens Mount: D Viewfinder: Trifocal, for 12.5, 25, and

36mm lenses. Operating Speeds (f.p.s.): 8, 12, 16, 24, 32, 48, 64

Shutter Speed At 16 f.p.s.: 1/30 sec. Film Run on One Winding: 111/6 ft. Special Features: Three-lens turret; takes up to 100-ft. rolls of double-8mm film; single frame exposure; continuous run lock; provision for cable release; reverse crank; automatic film threading; 100-ft. rewind; ground glass focusing.

Last List Price: Not available. Last Reported Used Selling Price Range in 1956: Not available.

Serial Numbers: Up to 10,000 Special Identification Points: 1. No frame counter, as in later versions.

BOLEX MODEL H-8 (1941 version)

Note: This model is the same as the 1937 version, but has an external frame counter.

Introduced: 1941 Discontinued: 1946 Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: 10,000 to 34,000

Special Identification Points: 1. Frame counter, located externally instead of internally, as in later versions.

BOLEX MODEL H-8 (1946 version)

Note: This model is the same as the 1941 version, but has internal frame counter and viewfinder for 6.5, 12.5. and 36mm lenses.

Introduced: 1946 Discontinued: 1951 Last List Price: Less lens, \$282.50

Last Reported Used Selling Price Range in 1956: With f/1.9 Kern focusing lens, \$140-\$162

Serial Numbers: 34.000 to 50.000

Special Identification Points: 1. Viewfinder for 6.5, 12.5, and 36mm lenses, instead of for 12.5, 25, and 36mm, as in earlier versions.

BOLEX H-8 LEADER (1951 version)

Note: This is the same as the Bolex H-8, 1946 version, but was given the name "Leader" to differentiate it from the H-8 DeLuxe.

Introduced: 1951 Discontinued: 1956 Last List Price: With 1/2 in., f/1.9 Kern Paillard focusing lens, \$259.50

Last Reported Used Selling Price Range in 1956: With f/1.9 Kern focusing lens, \$159-\$187

Serial Numbers: 50,000 to 97,801 Special Identification Points: 1. Differentiated from later 1956 version by not having turret lever.

BOLEX H-8 LEADER (1956 version)

Note: This model is the same as the 1951 version, but has a new type turret with built-in turret lever, and shutter speed of 1/40 sec. at 16 f.p.s. Introduced: 1956 (Currently in pro-

duction) Last List Price: With 1/2 in., f/1.9 Kern Paillard focusing lens, \$269.50

Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: From 97,801

Special Identification Points: 1. Differentiated from 1951 version by having built-in turret lever.

BOLEX H-8 DELUXE (1951 version)

Note: This model is the same as the H-8 Leader, 1951 version, but has eye-level focusing, and Octameter viewfinder for 6.5, 9, 12.5, 25, 36, 50, 63, and 75mm lenses, instead of the Trifocal finder. The Leader may be converted into the DeLuxe model by adding the eye-level focus and Octameter.

Introduced: 1951 Discontinued: 1956 Last List Price: With 1/2 in., f/1.9 Kern Paillard focusing lens, \$365.75

Last Reported Used Selling Price Range in 1956: With f/1.9 Kern focusing lens, \$195-\$240

Serial Numbers: 50,000 to 97,800 Special Identification Points: 1. Differentiated from H-8 Leader by having eye-level focus; 2. further differentiated by having Octameter viewfinder.

BOLEX H-8 DELUXE



Note: This model is the same as the 1951 version, but has a new type turret with built-in turret lever, and shutter speed of 1/40 sec. at 16 f.p.s. Introduced: 1956 (Currently in production)

Last List Price: With ½ in., f/1.9 Kern Paillard focusing lens, \$370 Last Reported Used Selling Price Range in 1956: Not available.

Serial Numbers: From 97,801

Special Identification Points: 1. Differentiated from 1951 version by having built-in turret lever.

BOLEX 16mm ROLL

Film Capacity: Up to 100-ft. rolls. Early models take double perforated film only; H-16 Leader, De-Luxe and Supreme take single or double perforated film.

BOLEX MODEL H-16 (1936 version)

Introduced: 1936 Discontinued: 1941 Lens Mount: C

Viewfinder: Trifocal; for 15, 25, and 75mm lenses.

Operating Speeds (f.p.s.): 8, 12, 16, 24, 32, 48, 64

Shutter Speed At 16 f.p.s.: 1/30 sec. Film Run on One Winding: 18 ft.

Special Features: Three-lens turret; automatic film threading; single frame exposure; ground glass focusing; continuous run lock; provision for cable release; reverse crank; full 100-ft. rewind.

Last List Price: Not available.

Last Reported Used Selling Price
Range in 1956: Not available.

Serial Numbers: Up to 10,000

Special Identification Points: 1. No frame counter.

BOLEX MODEL H-16 (1941 version)

Note: This model is the same as the 1936 version, but has an audible frame counter located on the outside of the camera, and an A lens mount (C mount lenses can be used without adapters).

Introduced: 1941 Discontinued: 1946 Last List Price: Not available.

Last Reported Used Selling Price Range in 1956: Not available.

Serial Numbers: 10,000 to 34,000 Special Identification Points: 1. Differentiated from 1936 version by

ferentiated from 1936 version by having frame counter; 2. Differentiated from 1946 version by having external instead of internal frame counter.

BOLEX MODEL H-16 (1946 version)

Note: This model is the same as the 1941 version, but has internal, instead of external frame counter.

Introduced: 1946 Discontinued: 1951

Last List Price: Less lens, \$282.50

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$154-\$172

(Continued on page 130)

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CAMERA GUIDE

(Continued from page 129)

Serial Numbers: 34,000 to 50,000 Special Identification Points: 1. Differentiated from 1941 version by having internal instead of external frame counter.

BOLEX H-16 LEADER (1951 version)

Note: This model is basically the same as the H-16, 1946 version, but with a few differences (see below).

Film: Takes single or double perforated film.

Introduced: 1951 Discontinued: 1956 Lens Mount: C

Viewfinder: Trifocal; for 16, 25, and 75mm lenses.

Operating Speeds (f.p.s.): 8, 12, 16, 24, 32, 48, 64

Shutter Speed At 16 f.p.s.: 1/30 sec. Film Run on One Winding: 16½ ft. Special Features: Three-lens turret; automatic film threading; single frame exposure; ground glass focusing; continuous run lock; audible frame counter; provision for cable release; reverse crank; full 100-ft. rewind.

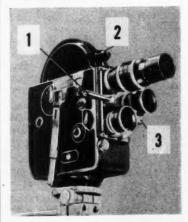
Last List Price: With 1 in., f/1.9 Kern Paillard focusing lens, \$269.50

Last Reported Used Selling Price Range in 1956: With f/1.9 Kern focusing lens, \$186-\$212

Serial Numbers: 50,000 to 100,400

Special Identification Points: 1. Differentiated from previous H-16 models by having viewfinder with field for 16mm, instead of 15mm lenses; 2. Differentiated from H-16 Leader, 1956 version, by not having built-in turret lever.

BOLEX H-16 LEADER (1956 version)



Note: This model is basically the same as the H-16 Leader, 1951 version, but has a new type turret with builtin turret lever, and has shutter speed of 1/40 sec. at 16 f.p.s.

Introduced: 1956 (Currently in production)

Last List Price: With 1 in., f/1.9 Kern Paillard focusing lens, \$269.50

Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: From 100,400

Special Identification Points: 1. Differentiated from H-16 Leader, 1951 version, by having built-in turret lever; 2. Differentiated from H-16 DeLuxe and Supreme by having cupped eyepiece for focusing, instead of eye-level assembly; 3. Further differentiated by having Trifocal viewfinder (for 3 focal lengths) instead of Octameter (for 8 focal lengths).

BOLEX H-16 DELUXE

Note: This model is basically the same as the H-16 Leader, 1951 version, but has the following differences: Eye-level focusing; Octameter viewfinder for 16, 25, 35, 50, 63, 75, 100, and 150mm lenses; shutter speed of 1/30 sec. at 16 f.p.s.; 18-ft. film run on one winding.

Introduced: 1951 Discontinued: 1956 Last List Price: With 1 in., f/1.9 Kern Paillard focusing lens, \$370

Last Reported Used Selling Price Range in 1956: With f/1.9 Kern focusing lens, \$235-\$269

Serial Numbers: 50,000 to 94,000

Special Identification Points: 1. Differentiated from H-16 Leader models by having eye-level focusing and Octameter viewfinder; 2. Differentiated from H-16 Supreme by not having built-in turret lever.

BOLEX H-16 SUPREME (1954 version)

Note: This model is basically the same as the H-16 DeLuxe, but has the following differences: New type turret with built-in turret lever and filter slot; shutter speed of 1/40 sec. at 16 f.p.s.; 16½-ft. film run on one winding.

Introduced: 1954 Discontinued: 1956 Last List Price: With 1 in., f/1.9 Kern Paillard focusing lens, \$394

Last Reported Used Selling Price Range in 1956: With f/1.9 Kern focusing lens, \$248-\$289

Serial Numbers: 94,000 to 100,400

Special Identification Points: 1. Differentiated from H-16 DeLuxe by having built-in turret lever; 2. Differentiated from H-16 Leader models by having eye-level focusing; 3. Further differentiated from Leader models by having Octameter viewfinder.

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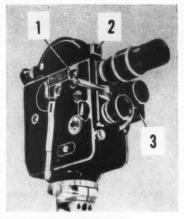
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BOLEX H-16 SUPREME (1956 version)

Note: This model is the same as the H-16 Supreme, 1954 version, but has a new, improved film-registrator claw said to provide steadier pic-

Introduced: 1956 (Currently in production)

Last List Price: With 1 in., f/1.9 Kern Paillard focusing lens, \$394

Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: From 100,400

KEYSTONE

Manufacturer: Keystone Camera Co., Inc., Hallet Square, Boston 24, Mass.

KEYSTONE 8mm ROLL

Film Capacity: All models take 25-ft. rolls of double-8mm film.

Lens Mount: All models have D

KEYSTONE MODEL K-8

Introduced: 1935 Discontinued: 1949 Viewfinder: Optical; for 1/2, 1, and 11/2-in. lenses.

Operating Speeds (f.p.s.): 12, 16, 48 Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 6½ ft. Special Features: Continuous run lock.

Last List Price: With 12.5mm, f/1.9 Wollensak lens, \$99.50.

Last Reported Used Selling Price Range in 1956: With f/1.9 Wollensak lens, \$39-\$49

Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from later Model K-36 by having removable instead of hinged side.

KEYSTONE MODEL K-36

Introduced: 1949 Discontinued: 1954 Viewfinder: Optical, for ½-in. lens, (Continued on page 132)



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CAMERA GUIDE

(Continued from page 131)

with masks for 1 and 11/2-in. lenses. Operating Speeds (f.p.s.): 12, 16, 48 Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 61/9 ft.

Special Features: Continuous run lock; audible footage indicator; exposure guide.

Last List Price: With 12.5mm, f/2.8 lens, \$59.95

Last Reported Used Selling Price Range in 1956: With f/2.5 lens, \$29-\$38

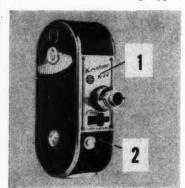
Serial Numbers: Not available.

Special Identification Points: 1. "K-36" engraved on front of camera; 2. Differentiated from earlier Model K-8 by having hinged instead of removable side.

KEYSTONE MODEL K-22

Introduced: 1949 Discontinued: 1953 Viewfinder: Optical, with masks for 1 and 11/9-in. lenses.

Operating Speeds (f.p.s.): 12, 16, 48 Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 61/2 ft.



Special Features: Continuous run lock; audible footage indicator.

Last List Price: With 12.5mm, f/2.5 Wollensak lens, \$73; with 12.5mm, f/1.9 Wollensak fixed focus lens, \$88; with 12.5mm, f/1.9 Wollensak focusing lens, \$97.75

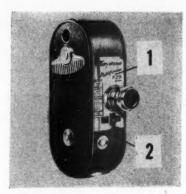
Last Reported Used Selling Price Range in 1956: With f/1.9 Wollensak focusing lens, \$57-\$66

Serial Numbers: Not available.

Special Identification Points: 1. "K-22" engraved on front of camera; 2. Early version covered in black leather or vinyl; later version covered in brown vinyl.

KEYSTONE K-29 PATHFINDER

Note: This model is the same as Model K-22, but has bronze wrinkle finish instead of leather or vinyl covering. Introduced: 1950 Discontinued: 1955 Last List Price: With 12.5mm, f/2.8 Elgeet lens, \$48.50



Last Reported Used Selling Price Range in 1956: With f/3.5 lens, \$24-\$30

Serial Numbers: Not available.

Special Identification Points: 1. "Pathfinder K-29" engraved on front of camera; 2. Differentiated from Model K-22 by having brown wrinkle finish.

KEYSTONE K-30 CAPRI

Introduced: 1953 Discontinued: 1955 Viewfinder: Optical, for normal lens. with etched rectangle for 11/2-in. lens.

Operating Speeds (f.p.s.): 16 only. Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 6 ft.

Special Features: Single frame exposure; continuous run lock; foldaway winding crank; footage counter resets automatically; exposure guide; drop-in film loading.

Last List Price: With 12.5mm, f/1.9 Elgeet lens, \$59.95

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$34-\$42

Serial Numbers: Not available.

Special Identification Points: 1. "Capri K-30" engraved on front of camera: 2. Differentiated from later K-25 by having brown instead of gray vinyl covering.

KEYSTONE K-25 CAPRI

Note: This model is the same as Model K-30, but has gray instead of brown vinyl covering.

Introduced: 1955 (Currently in production)

Last List Price: With 12.5mm, f/2.5 Elgeet lens, \$49.95; with 12.5mm, f/1.9 lens, \$59.95

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$36-\$44

Serial Numbers: Not available.

Special Identification Points: 1. "K-25" engraved on front of camera; 2. Differentiated from earlier Model K-30 by having gray instead of brown vinyl covering; 3. Differentiated

Di

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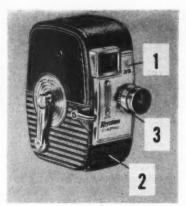
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from Model K-28 by having single lens mount instead of turret.

KEYSTONE K-28 CAPRI

Note: This model is the same as Model K-25, but has a two-lens turret.

Introduced: 1956 (Currently in production)

Last List Price: With 12.5mm, f/1.9 Elgeet fixed focus lens and 1½-in., f/3.5 Elgeet fixed focus tele lens, \$87.95; with 10mm, f/1.9 Elgeet lens, and 1½-in., f/1.9 Elgeet fixed focus tele lens (K-28A), \$110

Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: Not available. Special Identification Points: 1. Differentiated from Model K-25 by

KEYSTONE K-32 OLYMPIC

having turret.

film loading.

Introduced: 1950 Discontinued: 1956 Viewfinder: Optical, with sliding lenses; for wide-angle, ½, and 1½-in. lenses. Operating Speeds (f.p.s.): 12, 16, 24, 48

Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 6½ ft. Special Features: Single frame exposure; continuous run lock; drop-in-



Last List Price: With 12.5mm, f/2.5 lens, \$84.95; with 12.5mm, f/1.9 lens, \$104.50.

Last Reported Used Selling Price (Continued on page 134)



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CAMERA GUIDE

(Continued from page 133)

Range in 1956: With f/2.5 lens, \$40.\$52

Serial Numbers: Not available.

Special Identification Points: 1. "Olympic K-32" engraved on front of camera; 2. Differentiated from earlier Keystone models by having rectangular instead of tapered or oval shape; 3. Differentiated from Model K-35 by having single lens mount instead of turret: 4. Differentiated from later Model K-33 by having viewfinder with sliding front lenses instead of zoom-type finder.

KEYSTONE K-35 OLYMPIC

Note: This model is the same as Model K-32, but has a three-lens turret.

Introduced: 1951 Discontinued: 1956 Last List Price: With 12.5mm, f/2.5 lens, \$99.95; with 12.5mm, f/1.9 lens, \$119.50

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$66-\$77

Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model K-32 by having turret.

KEYSTONE K-33 OLYMPIC



Introduced: 1956 (Currently in pro-

Viewfinder: Zoom type optical; for wide-angle, 1/2, 1, and 11/2-in. lenses. Operating Speeds (f.p.s.): 12, 16, 24, 48 Shutter Speed at 16 f.p.s.: 1/35 sec.

Film Run on One Winding: 61/2 ft. Special Features: Single frame exposure; continuous run lock; drop-in film loading; exposure guide.

Last List Price: With 12.5mm, f/2.5 Elgeet lens, \$84.95; with 12.5mm, f/1.9 Elgeet lens, \$104.50

Last Reported Used Selling Price Range in 1956: Not available.

Serial Numbers: Not available.

Special Identification Points: 1. "K-33" engraved on front of camera; 2. Differentiated from Model K-38 by having single tens mount instead of turret.

KEYSTONE K-38 OLYMPIC

Note: This model is the same as Model K-33, but has a three-lens turret.

Introduced: 1956 (Currently in production)

Last List Price: With 12.5mm, f/2.5 Elgeet lens, \$99.95; with 12.5mm, f/1.9 Elgeet lens, \$119.50

Last Reported Used Selling Price Range in 1956: Not available.

Serial Numbers: Not available. Special Identification Points: 1. Differentiated from Model K-33 by having turret.

KEYSTONE K-33Z OLYMPIC



Note: This model is the same as Model K-33, but comes equipped with zoom lens (9.5mm to 28.5mm range) and synchronized finder (as well as regular viewfinder).

Introduced: 1956 (Currently in production)

Last List Price: \$239.50

Last Reported Used Selling Price Range in 1956: Not available.

Serial Numbers: Not available.

Special Identification Points: 1. Zoom lens assembly.

KEYSTONE 8mm MAGAZINE

Film Capacity: All models take 25-ft. magazines of double-8mm film. Lens Mount: All models have D mount.

KEYSTONE K-40 RIVIERA

Introduced: 1949 Discontinued: 1955 Viewfinder: Zoom type; for wideangle, 1/9, 1, and 11/9-in. lenses.

Operating Speeds (f.p.s.): 12, 16, 24, 64 Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 61/2 ft. Special Features: Single frame exposure; continuous run lock; viewfinder has scene-length indicator.

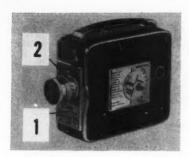
Last List Price: With 12.5mm, f/2.5 lens, \$107.75; with 12.5mm, f/1.9 fixed focus lens, \$122.50; with 12.5mm, f/1.9 focusing lens,

Last Reported Used Selling Price Range in 1956: With f/1.9 fixed focus lens, \$69-\$81

Serial Numbers: Not available.

Special Identification Points: 1. "Riviera K-40" engraved on front of

Dei



camera; 2. Differentiated from Model K-45 by having single lens mount instead of turret.

KEYSTONE K-45 RIVIERA

Note: This model is the same as Model K-40, but has a three-lens turret. Introduced: 1949 Discontinued: 1956 Last List Price: With 12.5mm, f/2.5 lens, \$119.50; with 12.5mm, f/1.9 lens, \$139.50

Last Reported Used Selling Price Range in 1956: With f/1.9 focusing lens, \$82-\$94

Serial Numbers: Not available.
Special Identification Points: 1. "Riviera K-45" engraved on top of camera; 2. Differentiated from Model K-40 by having turret.

KEYSTONE K-41 BEL AIR

Introduced: 1952 Discontinued: 1956 Viewfinder: Zoom type; for wideangle, ½, 1, and 1½-in. lenses.

Operating Speeds (f.p.s.): 12, 16, 24, 48 Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 6½ ft.

Special Features: Single frame exposure; continuous run lock; audible scene-length indicator.

Last List Price: With 12.5mm, f/2.5 lens, \$94.95; with 12.5mm, f/1.9 lens, \$104.50

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$55-\$67



Serial Numbers: Not available.

Special Identification Points: 1. "Bel Air K-41" engraved on front of camera; 2. Differentiated from later Model K-42 by having viewfinder window assembly flush with camera body.

KEYSTONE K-42 BEL AIR

Introduced: 1956 (Currently in production)

Viewfinder: Zoom type; for wideangle, ½, 1, and 1½ in. lenses. Operating Speeds (f.p.s.): 12, 16, 24, 48

Operating Speeds (f.p.s.): 12, 16, 24, 48 Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 6½ ft.

Special Features: Single frame exposure; continuous run lock; viewfinder visor; film-loading safety lock; exposure guide.

Last List Price: With 12.5mm, f/2.5 lens, \$94.95; with 12.5mm, f/1.9 lens, \$104.50



Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: Not available.

Serial Numbers: Not available.

Special Identification Points: 1. "K-42"
engraved on front of camera; 2. Differentiated from earlier Model K-41
by having viewfinder-window visor.

KEYSTONE K-48 BEL AIR

Note: This model is the same as Model K-42, but has a three-lens turret.

Introduced: 1956 (Currently in production)

Last List Price: With 12.5mm, f/2.5 Elgeet lens, \$119.50; with 12.5mm, f/1.9 Elgeet lens, \$139.50

Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model K-42 by having turret.

KEYSTONE K-42Z BEL AIR

Note: This model is the same as Model K-42, but comes equipped with zoom lens (9.5mm to 28.5mm range) and synchronized finder (as well as regular viewfinder).

Introduced: 1956 (Currently in production)

Last List Price: \$249.50

Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: Not available.

Special Identification Points: 1. Zoom lens assembly.

(Continued on page 142)

See Photokina News Flash, Page 111.

THE DAGOR STORY



• Why Buy One?

If your camera has an interchangeable lensboard, such as Graffex, Linhof, or any view camera, be sure you equip it with a GOERZ GOLDEN DAGOR Lens. Negatives made with this lens will delight the connoisseur. If you already have a standard lens, widen the scope of your camera by adding a longer focal length DAGOR for better perspective in close-ups or portraits. For photography in close quarters get a WIDE-ANGLE DAGOR of 100° coverage!

• What About Lens Speed?

Speed in a lens can be obtained only by sacrificing to a great degree depth of focus, angle of view and covering power. The GOERZ GOLDEN DAGOR has all these qualities and can produce negatives that are unmatched by comparably faster lenses. Today's fast color emulsions, triple speed B & W films and vastly superior lighting are excellent reasons why you should use a medium speed lens. When selecting your lens, don't go for speed—go for quality.

• Covering Power?

The GOERZ GOLDEN DAGOR will cover an angle of view of 87°—equivalent to covering a film with a diagonal of twice the focal length. The DAGOR also gives great satisfaction for wide-angle work. A 6" DAGOR, for instance, rated to cover 4"x5" at F:6.8 will cover almost an 8"x10" film when stopped down.

• Color Correction?

The ideal color correction of the DAGOR, combined with its outstanding ability to give even illumination over the entire format, ranks the DAGOR highest among color photographers in all fields. There is no falling off of exposure or fuzziness at the edges, so annoying with inferior lenses when color film is being used.

• Its Construction?

Buy a GOLDEN DAGOR and get two lenses for the price of one. Unscrew the front or rear element and you increase your focal length 75% at a speed of F:13. A wonderful portrait and landscape lens with increased perspective! GOERZ GOLDEN DAGOR lenses are available from 6" to 12" and WIDE-ANGLE DAGOR from 3%" to 6½" in Compur, Rapax and Acme shutters. For example, an 8¼" DAGOR in Synchro-Compur MX sells for \$179.50.

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Single-window for rangefinder and viewfinder, metal focal plane shutter, removable back, bayonet lens mount, delayed action release, full built-in flash synchronization are just a few of the reasons for the acknowledged leadership of CONTAXI Contax II-A with Testar coated 1/3.5 lens \$247. Cash or \$24.70 Down; with Sonnar coated 1/2.0 lens \$298. Cash or \$29.60 Down; or with Sonnar coated 1/1.5 lens \$318. Cash or \$31.80 Down. For Contax III-A (with built-in exposure meter) add \$30. Cash or \$3.00 Down.



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	Selected	Contax	Lenses	and Ac	ces	sories	
Biogon	21mm f/4	.5	\$199.0	0 Cash	or	\$19.90	Down
	35mm f/2						
Planar	35mm f/3.	5	102.0	0 Cash	or	10.20	Down
Triotar	85mm f/4	.0	106.0	0 Cash	or	10.60	Down
Sonnar	85mm f/2	.0	189.0	0 Cash	or	18.90	Down
Sonnar	135mm f/4	4.0	146.0	0 Cash	OF	14.60	Down
Stereot	ar C, 35m	m f/3.5's.	125.0	0 Cash	OF	12.50	Down
Stereo	Prism Att	achment	39.0	0 Cash	or	3.90	Down
Stereo	Viewfinder		10.0	0 Cash	or	1.00	Down

1957 | KOFLEX | Ikoflex | Ib with Novar coated | f/3.5 | lens in Pronto: SVS shufter \$99. Cash or \$9.90 | Down; | Ikoflex | Ib with Tessar coated | f/3.5 | lens in Pronto: SVS shufter \$119. Cash or \$11.90 | Down; | Ikoflex | Ic with coated Tessar | f/3.5 | lens in Pronto: SVS shufter and built-in exposure meter \$146. Cash or \$14.60 | Down.



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Bolex B-8 with Yvar coated f/2.5 lens	Cash	10	11.95	Down
Bolex B-8 with Lytar coated f/1.9 lens139.58	Cash	OF	13.95	Down
Bolex B-8 with Switar coated f/1.5 lens and				
Yvar 11/2" (telephoto) coated f/2.8 lens 260.00	Cash	91	26.00	Down
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Bolex H-8 De Luxe with Switar coated f/1.5 lens 432.50	Cash	18	43.25	Down
Bolex H-16 Leader with Lytar coated f/1.9 lens 269.50	Cash	10	26.95	Down
Bolex H-16 Supreme w/Lytar coated f/1.9 lens 394.00	Cash	or	34.90	Down
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Switar 16mm coated f/1.8 lens, Switar 50mm		
coated f/1.4 lens & deluxe H-I case complete824.00	Cash or	82.40 Down
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Bolex M-8 Projector with case		
Bolex Combination G8mm-16mm Projector339.50	Cash or	33.95 Down

Bolex H-16 Supreme with Switar coated f/1.4 lens,

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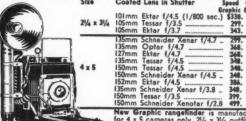
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Size Coated Lens in Shutter Speed Crews Coated Lens in Shutter Speed Crews 105mm Tesser 1/3.5 279 279.

105mm Tesser 1/3.5 279 279.

105mm Ektar 1/3.7 343. 294.



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279. 319. 319.

299, 299, 299, 337, 299, 379,

459.

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ALPA 7 (Prism Reflex & hragm ... 31.40 33.90 Selected ALPA Wide Angle and Telephoto Lenses

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The new 52



with all the features you want in a 35mm

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 Removable back and fixed take-up spool for easy loading
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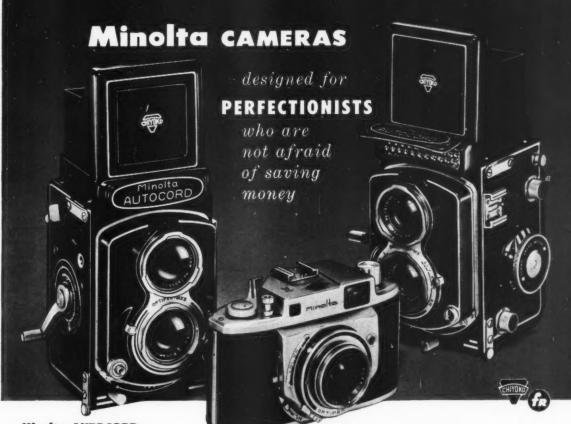


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CAMERA GUIDE

(Continued from page 135)

KEYSTONE 16mm ROLL

Film Capacity: Up to 100-ft. rolls of double-perforated 16mm film (some models also take single-perforated film, as described below).

Lens Mount: All models have C

KEYSTONE MODEL A-7

Film: Double-perforated only.

Introduced: 1935 Discontinued: 1954 Viewfinder: Optical type; for 1 and 3-in. lenses.

Operating Speeds (f.p.s.): 10, 16, 24, 32, 40, 48, 64

Shutter Speed at 16 f.p.s.: 1/36 sec. Film Run on One Winding: 18 ft.

Special Features: Continuous run lock; audible footage indicator; exposure guide.

Last List Price: With 25mm, f/2.5 lens, \$74.50; with 25mm, f/1.5 lens, \$107.50

Last Reported Used Selling Price Range in 1956: With f/1.5 lens, \$51-\$60

Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from later Model A-9 by having wrinkle enamel finish instead of vinyl covering.

KEYSTONE A-9 CRITERION



Film: Early version takes only doubleperforated film; later version takes single or double-perforated.

Introduced: 1949 (Currently in production)

Viewfinder: Optical type; for 1 and 3-in. lenses. Operating Speeds (f.p.s.): 10, 16, 24,

32, 40, 48, 64 Shutter Speed at 16 f.p.s.: 1/36 sec.

Film Run on One Winding: 18 ft. Special Features: Single frame exposure; continuous run lock; audible footage indicator; exposure guide.

Last List Price: With 25mm, f/2.5 lens, \$114.50

Last Reported Used Selling Price Range in 1956: With f/2.5 Wollensak lens, \$46-\$58

Serial Numbers: Not available.

Special Identification Points: 1. "Model A-9" engraved on front of camera; 2. Differentiated from earlier Model A-7 by having vinyl covering instead of wrinkle enamel finish.

KEYSTONE A-12 CRITERION

Note: This model is the same as Model A-9, but has a two-lens turret, and viewfinder for 17mm, 1, and 3-in. lenses. As with the A-9, an early version takes double-perforated film only; later version takes single or double-perforated.

Introduced: 1949 (Currently in production)

Last List Price: With 25mm, f/1.9 lens, \$169.50

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$90-\$104

Serial Numbers: Not available.

Special Identification Points: 1. "Model A-12" engraved on front of camera; 2. Differentiated from Model A-9 by having turret; 3. Differentiated from later Model A-15 (below) by not having additional external viewfinder.

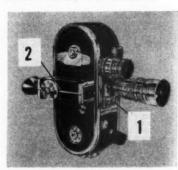
KEYSTONE A-15 NEWPORT

Note: This model is similar to later version of Model A-12, but has additional, parallax-corrected external zoom finder for 15mm, 1, 2, and 3-in. lenses.

Introduced: 1955 (Currently in pro-

Last List Price: With 25mm, f/1.5 Elgeet lens, \$199.50

Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: Not available.



Special Identification Points: 1. "A-15" engraved on front of camera; 2. Differentiated from Model A-12 by having additional, external viewfinder.

(Continued on page 148)





ABOVE the crowd

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prizes, that catch the eye of magazine editors.

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 Platform focusing with big focusing knob.
 Depth of field scale and filer reminder.
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Coronet B Exposure Meter Kit

with

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Versatility deluxe! Get a "reading" just about anywhere with this new super-se sitive Coronet B. Nighspeed films! Low light! Your Coronet B does the jeb.

- ASA FILM INDEX—3 to 1200
 LENS STOPS —1: 10 f:32
 SHUTTER SPEEDS—30 secs. to 1/1000 sec.
 MOVIE SCALE 8. 16, 32; 64 Frames
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 HIGH-LOW INTENSITY SCALE
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ONLY

Preferred by PROFESSIONALS



THE ALL NEW AURICON PRO-600"

for 16mm Optical Sound-On-Film

- \$1,165.00 list...for "Auricon Pre-600" Model CM-75 "Double-System" professional picture-camera with built-in features. Also available at added cost is "Single-System" equipment for Optical Sound-Track-On-Film, also View-Finders, 3-Lens Turret, Critical Ground-Glass Focusing, Tele-Emders, etc...
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Self-blimped for completely quiet studio operation. Your sound-recording microphone never picks up "Pro-600" Camera noise! 600 ft. film Magazines, for 16 minutes of continuous "Talking-Picture" filming.

SOUND MOVIE

Auricon Pro-600 Camera-Head Auricon Super-1200 Auricon Filmagnetic Auricon Cine-Voice.

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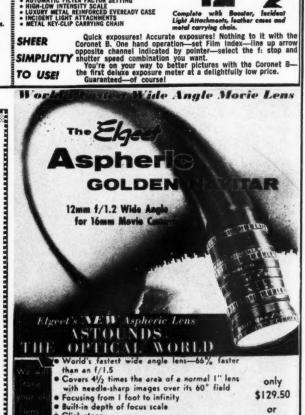
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\$116.50 465.21 87.00

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 Available in standard C mount for most 16mm movie cameras. Also Kodak mount

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28mm f3.5 Angenieux	.\$ 64.00 \$50.00
35mm f2.5 Angenieux	
40mm f3.5 Cassaron	
35mm f2.8 Zeis Auto	. 99.00 75.00
35mm f4.5 Lithogon	
40mm f3.5 Makro-Kilar	
40mm f3.5 Makro-Kilar l	D 76.50 60.00
50mm f1.5 Angenieux P8	. 105.00 80.00
50mm f2.8 Westanar Auto	45.50 30.00
50mm fl.9 Xenon Auto .	. 116.50 85.00
58mm f2 Biotar PS	. 61.50 40.00
75mm f1.5 Biotar	91.50 70.00
90mm f2.5 Angenieux	. 56.00 40.00
135mm f3.5 Angenieux	. 52.00 40.00
135mm f4.5 Xenar	. 47.00 30.00
180mm f5.5 Xenar	. 47.00 35.00
135mm f3.5 Xenar Auto .	
200mm f5.5 Xenar PS 66	. 74.00 60.00
240mm f5.5 Xenar	
360mm f5.5 Xenar	. 94.00 75.00
400mm f5.5 Megor	. 94.00 75.00
400mm f5.6 Novoflex	

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28mm (3.5 Serenar 69.00 50.00 53mm (2.8 Blogon 76.00 00.00 53mm (2.5 Nikkor 76.00 65.00 53mm (2.5 Nikkor 76.00 65.00 53mm (3.5 Serenar 76.30 50.00 53mm (3.5 Nikkor 40.00 55.00 53mm (3.5 Summaron 54.50 40.00 55.00 53mm (3.5 Summaron 54.50 40.00 55mm (2.5 Summaron 96.50 75.00 55mm (2.5 Summaron 96.50 75.00 55mm (1.9 Serenar 104.00 60.00 85mm (1.9 Serenar 778.00 60.00 85mm (1.9 Serenar 778.00 60.00 85mm (1.9 Serenar 778.00 60.00
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35mm #2.8 Biogon 76.00 60.00 35mm #2.5 Nikkor 79.00 65.00 35mm #3.2 Nikkor 79.00 65.00 35mm #3.5 Nikkor 49.00 35mm #3.5 Nikkor 49.00 35mm #3.5 Nikkor 49.00 35mm #3.5 Summaron 54.50 40.00 56mm #2 Summitar 99.50 40.00 56mm #2 Summitar 99.50 55.00 56mm #2 Summitar 96.50 55.00 55mm #1.9 Serenar 194.00 80.00 85mm #1.9 Serenar 78.00 60.00 85mm #2 Sonnar 78.00 60.00 78
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85mm f2 Sonnar 78.00 60.00
85mm f2 Nikkor 86.00 70.00
85mm f1.5 Summarex 149.00 110.00
90mm f4 Elmar 54.50 40.00
125mm f2.5 Hektor 93.50 70.00
135mm f3.5 Nikkor 67.00 50.00
200mm f4.5 Telyt 102.00 75.00
135mm f4.5 Hektor 61.50 40.00
135mm f4 Sonnar 89.00 70.00

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Contax IIA f2 Sonnar\$130.00	\$110.00
Contax IIA f1.5 Sonnar 155.06	130.00
Contax IIIA f2 Sonnar 169,00	140.00
Leica IIIA f2 Summar 73.66	50.00
Leica IIIC f2 Summitar, 112.00	85.00
Leica IIIF f2 Summitar, 143,56	120.00
Leica IIIF f2 Summicron 139.00	115.00
Nikon 82 f2 Nikkor 162.50	140.00
Nikon S2 f1.4 Nikkor 219.00	175.00
Canon V 35mm f1.8 215.00	175.00
Canon V 50mm f1.2 275.00	225.00
Canon IV S2 f1.8 121.00	100.00
Canon V 35mm f1.8 215.00	175.00
Canon V 50mm f1.2 275.00	225.00
Contax II f2 Sonnar 64.00	50.00
Contax III f2 Sonnar 66.00	50.00
Contax IIIA f1.5 Sonnar. 173.00	145.00
Leica IIIC f3.5 Elmar 76.00	60.00
Leica IIIF f3.5 Elmar 122.00	100.00
Leica IIIF f1.5 Summarit 169.00	150.00
leica M3 f2 Summieron, 268,00	220.00
Leica M3 f1.5 Summarit. 298.00	
Nikon #2 Nikkor 107.00	

35MM SINGLE	Used (rade-ir
LENS REFLEX		Paid
Contaffex I f2.8 Tessar	5 67.00	\$55.00
Contaflex II f2.8 Tessar		
Exakta VX f2.8 Tessar P8	149.50	120.00
Exakta VX f2 Biotar		
Auto RF	199.00	470.00
Exakta VX f2 Biotar P8	159.50	135.00
Exakta VX f2 Westagon		
Auto	167.00	140.00
Pentacon f2 Biotar P8	126.50	100.00
Praktina FX f2 Biotar	20,00	
Auto	179.50	140 00
Praktina FX f2.8 Tessar		
Praktina FX II f2.8 Tessar		60.00
Praktica FX II f1.9 Primo		
Exa f2.8 Westar	37.00	
Exakta V f2 Biotar	97.50	
Exakta VX f2.8 Auto West	137.50	115.00
Exakta VX f1.9		
Auto Xenon	185,00	155.00

35MM CAMERAS	Used or Car Price Pai	sh
Argus C-3 f3.5 outfit		
Argus C-4 f2.8	. 44.00 35.0	
Kodak 35 f3.5 RF	. 27.50 20.0	
Kodak Retina IIIC f2	. 109.00 85.0	
Kodak Signet f3.5		
Konica II f2.8	. 55.00 35.0	
Mercury IIIS (3.5 outfit	. 72.00 55.0	
Mercury II f2.7	. 17.50 10.0	
Robot Royal f1.9 Xenon .	. 134.00 110.0	
Minolta A f3.5 RF		30
Robot Star f1.9 Xenon	. 73.00 55.0	90
Voigt Vito B f3.5		
Voigt Vitessa L f2	. 80.00 65.0	90
Ricoh 35 f3.5 outfit	. 37.50 25.0	30
Kodak Signet f3.5	. 37.00 30.0	00
Robot Royal "36"		
f2.8 Xenar	. 135.00 100.0	90
Robot Royal "36"		
f2 Sonnar	. 195.00 145.0	
Robot Royal f2.8 Xenar .	. 149.00 110.0	96
Bolsey B2 f3.5 RF outfit.		
Contessa f2.8	. 67.00 50.0	
Graphic 35 f3.5 outfit		90
Kodak Pony 135 f4.5		30
Kodak Retina II f2 RF .		30
Kodak Retina IIA f2		
Minox IIIS f3.5 outfit	. 72.00 55.0)0
PRESS CAMERAS	Used or Ca Price Pai	sh

45 Linhof Super Tech	00.00	00.00
RF f4.5 MX	194.00	160.00
23 Linhof Super Tech		
RF 3-lenses Comp	307.00	270.00
45 Pace Speed f4.7 RF	163.00	130.00
45 Speed 1956 f4.7 Graphic		
Multifocus RF Rangelite	209.00	180.00
		rade-in
8MM CAMERAS	Price 0	Paid
TO C. TT 150TO 61 0		ATE 00
B&H 172B 11.9	.\$87.50	\$75.00
B&H 172B f1.9 B&H 134V f2.5	. \$87.50	28.00
B&H 134V f2.5 B&H 220 f2.5	. 37.50 . 21.00	28.00
B&H 134V f2.5 B&H 220 f2.5 B&H 134TA f1.9	. 37.50 . 21.00 . 96.00	28.00 15.00
B&H 134V f2.5 B&H 220 f2.5 B&H 134TA f1.9 B&H 252 f2.3	. 37.50 . 21.00 . 96.00 . 34.50	28.00 15.00 75.00
B&H 134V f2.5 B&H 220 f2.5 B&H 134TA f1.9 B&H 252 f2.3 Cine Kodak Mag f1.9	. 37.50 . 21.00 . 96.00 . 34.50 . 52.00	28.00 15.00 75.00 25.00
B&H 134V f2.5 B&H 220 f2.5 B&H 134TA f1.9 B&H 252 f2.3	. 37.50 . 21.00 . 96.00 . 34.50 . 52.00	28.00 15.00 75.00 25.00 40.00
B&H 134V f2.5 B&H 220 f2.5 B&H 134TA f1.9 B&H 252 f2.3 Cine Kodak Mag f1.9 Kodak Brownie f2.7	37.50 21.00 96.00 34.50 52.00 17.00	28.00 15.00 75.00 25.00 40.00 12.00
B&H 134V f2.5 B&H 220 f2.5 B&H 134TA f1.9 B&H 252 f2.3 Cline Kodak Mag f1.9 Kodak Brownie f2.7 Kodak Brownie f1.9 Revere 88 f2.5	37.50 21.00 96.00 34.50 52.00 17.00 24.00 27.50	28.00 15.00 75.00 25.00 40.00 12.00 18.00
B&H 134V f2.5 B&H 220 f2.5 B&H 134TA f1.9 B&H 252 f2.3 Cine Kodak Mag f1.9 Kodak Brownie f2.7	37.50 21.00 96.00 34.50 52.00 17.00 24.00 27.50	28.00 15.00 75.00 25.00 40.00 12.00 18.00

23 Ann Graphic RF f4.5..\$ 79.00 \$55.00

	Wanda la	OST TOTOLAR OSLD
8MM CAMERAS	Used or Cash	16MM CAMERAS
Revere 84 fl.9 Tur Revere 40 f2.5 Mag Revere 44 fl.9 Mag Revere B63 f2.5 Mag	\$79.50 \$65.00	B&H 70DL f1.9
8MM PROJECTORS B&H 253 500W DeJur 750W	641 00 690 00	Cine Kodak 100 Tur f1.9. 11 Cine Kodak Royal f1.9. 1 Keystone A-12 f1.9 tur Keystone A-9 f2.5 Keystone A-15 f1.5. 11 Keystone K51 f1.9 Mag. 1 Pathe Super 16 Tur . 1
Bedr 253 300W DeJur 750W Keystone K-70 500W Keystone K95M 750W Keystone K109M 750W Kodak Brownie 300W Revere 85 500W	37.50 30.00 64.00 50.00 72.00 60.00 33.50 25.00 44.50 37.00 62.00 50.00	Pathe Super IS Tur . 2: Vistascope Outfit
		SOUND PROJECTORS
16MM PROJECTORS	Trade-in Used or Cash Price Paid	
B&H 273A 750W	\$ 98.50 \$80.00 152.00 125.00 62.50 55.00	B&H 385C 1000W \$2 B&H 202C 1000W 3 Ampro Stylist 1000W 2 Revere 8P16 750W 1
		REFLEX CAMERAS
SLIDE PROJECTORS	Used or Cash Price Paid	Evakta 66 f2.8 Tessar \$1
Argus 300W w/case Argus 300W Auto, case B&H Robomatic	\$22.00 \$15.00 34.50 25.00	Graflex 22 f3.5
500W Auto Revere 553 Auto 300W Revere 555 Auto 500W TDC Duo 300W 214	89.00 70.00 39.50 30.00 41.00 30.00 27.50 20.00	Rolleicord IV 13.5 Xenar Rolleicord V 13.5 Xenar MX Rollei 13.5 Xenar 1 MX Rollei 13.5 Tessar 1 MX Rollei 12.8 1
TDC Headliner 300W . TDC Mainliner 300W . AO 500 Auto 500W	18.50 12.00 27.50 20.00 39.50 30.00	Ciroflex D f3.5
Hevere 555 Auto 500W TDC Duo 300W 2½ TDC Headliner 300W TDC Mainliner 300W AO 500 Auto 500W Brumberger 300W 2½ Kodak Merit 150W Kodak Signet Auto 300\ SVE Skyline Auto 300\ Golde Manumatic 300W	32.00 20.00 17.50 12.00 W . 47.50 35.00 V . 26.50 20.00	Ricohflex VI f3.5 Rolleicord III f3.5 Xenar
Kodaslide Signet 500W LaBelle 55 Auto 500W	42.50 30.00 42.00 30.00	35MM STEREO CAMERAS Kodak Stereo (3.5
TDC Model D 300W TDC Stereo Prok 500W Viewlex V33L 300W Revere 888 500W Auto	27.50 20.00 7 75.00 60.00 28.00 20.00 74.00 80.00	Revere f3.5 Stereo Realist f3.5 Edixa Stereo 3A f3.5 RF
	Woods to	
ELECTRONIC FLASH	Used or Cash Price Paid	ROLL FILM CAMERAS
Dormitzer DB1B Port FR Port-AC Heiland V Port Might Light Comb Port	\$ 47.50 \$30.00 35.50 25.00 67.50 45.00 -AC 54.50 40.00	Kodak Medalist I f3.5 Polaroid Highlander Super Ikonta A f3.5 Super Ikonta B f2.8
FR Port-AC Heiland V Port Might Light Comb Port-Stroboflash I Ultrablitz Expert IV Ultrablitz Matador 4808 (Dry Cell)	52.00 35.00 34.50 20.00	Super Ikonta C f3.5
(Dry Cell)	49.00 30.00	EXPOSURE METERS

ELECTRONIC FLASH	Price	or Cash Paid
Dormitzer DB1B Port\$	47.50	\$30.00
FR Port-AC	35.50	25.00
Heiland V Port	67.50	
Might Light Comb Port-AC		40.00
Stroboflash I	52.00	
Ultrablitz Expert IV	34.50	20.00
Ultrablitz Matador 4808		
(Dry Cell)	49.00	30.00
Ultrablitz Reporter 28		
	109.00	
USC	14.50	
R.I	32.00	
Stroboflash II Port	67.00	
Sunlite II Pocket-Pak	56.00	
Ultrablitz IIM Port-AC	27.00	20.00
		Trade-in
16MM CAMERAS	Used Price	or Cash Paid
Auricon f1.9\$5 B&H 200T f1.9 1	34.00 55.00	\$350.00 125.00

16MM CAMERAS	Used	Yrade-in or Cash Paid
B&H 70DL f1.9	\$194.00	\$170.00
B&H 70DR f1.9	229,00	180.00
B&H 200 f2.5	99,00	80.00
Cine Kodak Mag f1.9	51.00	
Cine Kodak 100 f1.9	167.00	140.00
Cine Kodak 100 Tur f1.9.	189,00	150.00
Cine Kodak Royal f1.9	92.50	70.00
Keystone A-12 fl.9 tur	95.00	80.00
Keystone A-9 f2.5	47.50	35.00
Keystone A-15 f1.5	126.00	95.00
Keystone K51 fl.9 Mag	102.50	80.00
Pathe Super 16 Tur	225,00	180.00
Vistascope Outfit	70.50	60.00
Zoomar f2.8	379.00	300.00

SOUND PR	OJECTORS	Price	or Cash Paid
B&H 385C	1000W	\$279.00	\$215.00
	1000W		200.00
	16 750W		135.00

REFLEX CAMERAS	Used	or Cash Paid
Exakta 66 f2.8 Tessar\$	177.50	\$150.00
Graflex 22 f3.5	42.50	30.00
Minolta Autocord f3.5	55.00	40.00
Minoltacord f3.5	39.50	30.00
Rolleicord IV f3.5 Xenar	61.00	50.00
Rolleicord V f3.5 Xenar	72,00	60.00
MX Rollei f3.5 Xenar	111.00	90.00
	118.00	100.00
	172.00	140.00
	29,50	18.00
Hasselblad/1000 f2.8	196.00	175.00
	276.00	200.00
Ikoflex IIA Auto f3.5	69.00	55.00
	17.00	10.00
Rolleicord III f3.5 Xenar.	57.50	45.00

STEREO CAMERAS							I'sed or Casi Price Paid			
	Kodak	Stereo	f3.5				\$43.00	\$30.00		
	Revere	f3.5 .					69.00	55.00		
	Stereo	Realist	13.5				59.00	45.00		
	Edixa	Stereo	3A f3	1.5	1	RF	59.00	45.00		

Kodak	Medal	list	I	f3	.5			\$49.00	\$35.00
Polaro	id Hig	hla	nd	er				34.00	25.00
	Ikonta								35.00
	Ikonta								50.00
	Ikonta							54.00	40.00

Price	Paid
Argus L-3\$10.95	\$ 7.00
Brockway M2 (N'wood) 15.00	10.00
Brockway M3 10.95	7.00
GE DW68 9.95	5.00
GE PR1 15.00	10.00
Leica 14.95	10.00
Minilux 6.75	4.00
Minox 15.00	10.00
Polaroid 8.50	6.00
Sekonic 3.50	3.00
Weston DR 9.50	5.00
Weston III Universal 11.00	7.00

DIRECT FROM WORLD FAMOUS JAPANESE FACTORY TO YOU!

JUST LOOK AT THESE SPECIFICATIONS

- 1:3.5 Sharp-cutting Four Element Lens Full Synchro M-X-F Shutter with Speeds

- 1.3.5 Sharp-cutting rour current.
 Fill Specind NAX-5 Shutter with Speeds from 1
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 Fill Specind NAX-5 Shutter Shutter Speeds Fill Speeds Shutter File Speeds Shutter Release speeds Shutter Release speeds Shutter Release speeds Shutter Self-Timer Shutter Leather Case 6.50 PROPERTY Reg. Value \$139.50

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Popular ARGUS C-3 CAMERA Outfit Complete

WITH PHOTO ELECTRIC EXPOSURE METER, WIDE ANGLE AND TELEPHOTO LENSESI

Just about everything you need for advanced Photography—
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- L.N. Argus C-3 Camera, Case and Flashgun
 Brand New Wide Angle and Telephoto lens
 Photo Electric Exposure Meter

EXCLUSIVE CLOSEOUT 35mm GERMAN IMPORT 5 FE 8 STEINHEI

ctaion cameres, the con-n manufacturer made us imise not to hint his no. However, after one look at these ians, it won't take you long to guess.

AUTOMATIC FILM TRANS A 811 * CUSTOM FINISHED BLACK BUILT-IN RANGEFINDER

REMEMBER! You can't go wrong. Your money DELUXE CASE 5.95 ack overnight. If you don't lick your chops when PLASH GUN 5.95



& H 70 DR W 25m

OT FI.P CTD LENS

\$239.00

USED 16mm Bell & Howell 70 DR. DUTFITS GIVE YOUR 35mm SLIDES AT LOW ... LOW PRICES!

SPOTLESS CAMERAS WITH BRAND NEW LENSES OUTFIT III

8 4 H 70 DR W / 25m OUTFIT II 8 & H 70 DR W/25mm F1.9 W/15mm F2.8 W/75mm F3.5

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MATCHED LENS SET \$ 289,50

WE HAVE OTHER USED B & H OUTFITS WRITE FOR LOWEST QUOTES

A PERMANENT HOME



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• Famous metal storage carrying case complete with 12 travs . . . for TDC, VIEWLEX — Each tray holds 30 slides. HOR RIVIEL

TAKE Your Choice of ANY ONE OF THESE 300 WATT AUTOMATIC Slide PROJECTORS WITH AUTOMATIC CHANGERS!



SVE Skyline, Airequipt Changer, Case

O AO 300, Airequipt Changer, Case

Brumberger Auto Rocket and Case

Mancfield, Auto Changer and Case

BRAND NEW MOVIE LENSES

New AUTO PRAKTIFLEX



\$ 89.50

\$104.00

W/2.8 TESSAR PS F4.5 TELE LENS OUTFIT.... \$89.50

LEATHER EVEREADY CASE..... \$8.50 PRISM FINDER ..

1956 AUTO **EXAKTA VX**

BRAND NEW CAMERAS WITH SPLIT FIELD RFDR PENTA PRISM WITH F2.8 WESTAMAR, FULLY AUTO. 2 x296.50......SPECIAL \$214.50

REG. \$296.50... WITH F2 ZEISS BIOTAR FULLY AUTO.
REG. \$392.00.....SPECIAL \$289.00 F1.9 SCHNEIDER XENON FULLY AUTO. \$392.00......SPECIAL \$289 00 REG. \$392 00

HERE IS THE EXPOSURE METER YOU HAVE ALWAYS WANTED!

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over 50% \$695 CASE & CHAIN

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SAVE MORE THAN 50%



ZEISS TYPE COATED PRISMS and LENSES

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CASE & SHOULDER STRAP

We inspected over 100 fine imports and selected only those that we are sure are top-quality, needle-sharp and precision made in eve F.F. S6.95 11/2" F3.2 F.F... 11/2" F3.2 F.M. 7.95 11/2" F2.5 F.M. 11.95 11/2" F1.9 F.M.

15.95 6mm F1.9 WIDE ANGLE.. 19.95

NEW TOP VALUE MERCHANDISE

- OBOT STAR, F1.9 XENON CTD. \$99.50 ULTRABLITZ
- EXPERT 111M 43.95 NORWOOD FLASHRITE 3.95 80mm F2.8 ZEISS
- TESSAR PS 59.50 (For Exekta, Pontacon, Etc.) 400mm FS.5 TELE PIEKSKAR PS 119.50 (For Exakto, Pontacon, Etc.)

NOW YOU CAN OWN THE TELEPHOTO LENS YOU'VE ALWAYS WANTED! ALL BRAND NEW Unbestable Values For

EXAKTA and EXAU

LATEST 1954 - 90 mm cort F4 SUN COATED TELE LENS Rag. \$51.95

FOR PENTACON-PRACTICA-EXARTA
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COATED TELE LENS Rog. S51.95

× 3 MODEL 2 STEINNEIL LENS-

CAMERAS 415 BURKE A
JAMES OUTFIT
with 135mm 14.5
C14. STEINHEIL
LENS. LENS.

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SYNCH. SMUTTER

KALART
RANGEFINDER

ROTATING
GRAPHIC BACK

BRAND NEW \$13950 SPECIAL REG. VALUE 5230 \$129.50

Brand New 4x5 CROWN GRAPHIC **Outfit Complete**

45 Crown Graphic Camera Kalart Rangefinder 135mm 14.7 etd Schneider Xenar 1/500 soc, M-X Synchra

Brand New REG. \$19950

Brand New ARGUS C-4 OUTFIT

- Famous Argus C-4 Cam Photo Electric Meter, Leather Case and Chain Detuxe Flashgum Pigskin Lined DeLuxe Professional Gadget Bag 2 Rolls Color Film 2 Rolls Kedak Tri-X Shade & 3 Filters

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AND > \$9750

 TRADE IN YOUR OLD CAMERA FOR ONE OF THESE MODERN STREAMLINED 35mm ARGUS CAMERAS.

\$88.00 BOLSEY C+...... 54.00 \$44.00 BANTAM+ ... 88.00 KODAK PONY+... 71.00 81.00 KODAK SIGNET+ 44.00, 64.00 MERCURY II+.... 71.00 KODAK 35 W/RFDR+ BOLSEY B2+ IF YOUR PRESENT CAMERA IS NOT LISTED, WRITE FOR OUR GENEROUS TRADE-IN ALLOWANCE OR OUR LOW CASH PRICE.

New...35mm SEIKOSHA Rangefinder Camera

COMPUR TYPE

SPEED SHUTTER SEC. TO 1/500 FULL MX SYNCH

SPECIAL \$5950 DELUXE CASE 5.95

ARGUS C-3 AND ARGUS 300 WATT PROJECTOR

- Famous Argus C-3, LN
- · Case
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- . Brand new 300 Watt Blower cooled Argus Projector (Newest 1956 Model)

New CONTAFLEX I Outfit

- Latest Medel, 12.8 Tessar, M-X, Auto Diaphragm New Wide Angle Lens New Telephote Lens Fully Lined Genuine Pigskin
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REG **Brand New** \$220.00 \$164.50 VALUE

New POLAROID

- HIGHLANDER Outfit Polaroid Highlander Camera DeLuxe Flashgun for
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- Famous Minolta 21/4 x21/4
- Autocord
 DeLuxe Leather Case
 Nationally Famous Photo
 Electric Exposure Motor
 with Case and Chain
 Lightweight Folding Tripod

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CAMERA		WIDE ANGLE		
Keystone K35	12.5	7mm 12.5	116-13.5	\$ 84.00
Revere 99	11.9	7mm 12.5	11/5-13.5	\$ 87.50
Revers 84	11.9	7mm 12.5	116-19.5	3 99.50
Revere 44	11.9	7mm 12.5	114-13.5	\$112,50
88H 134 TA	11.9	7mm 12.5	1%"13.5	\$124.00
86H 172 A	11.9		14-13.5	\$12950
Dalur Fadematic	11.9	7mm (2.5	14-05	\$127.50

CLOSEOUT!!

ORLD'S FINEST 35 mm VIEWER 100% AUTOMATIC . 6X AREA MAGNIFICA-TION . DOUBLE BATTERIES ILLUMINATE MAG-NIFIED TRANSPARENCY WITH BRILLIANT DEEP





Complete ROBOT

RAPID SÉQUENCE Outfit Brand New Robot Star Camera w/f1.9 Xenon ctd lens
New Telephoto Lens
Famous Photoelectrie
Exposure Meter
DeLuxe BC Flashgun

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Own THE FINEST IN 8mm Equipment

- · Like New 8mm Bell & Howell 134TA Turret Camera w/f2.5 ctd lens.
- 11/2 f3.5 ctd Tele lens
- 7mm f2.5 ctd W.A. lens • NEW 8mm KEYSTONE K-109M MAGNASCOPE PROJECTOR built-in splicer and Viewer and case,
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MODERN PHOTOGRAPHY

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 Illustrated is a CHOVOFLEXO MODEL II

This unit features a tripod rack for critical focusing and a device for taking vertical pictures without changing bellows position.

CONVERT your camera to a complete photographic system by adding a . . .

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With The Novoflex Balcop Attachment COPY YOUR OWN SLIDES IF YOU OWN A

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\$3450

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PLEASE ENCLOSE ESTIMATED POSTAGE & INSURANCE. EXCESS WILL BE REFUNDED NO C.O.D. UNDER 10 DOLLARS PLEASE ENCLOSE 20% ON C.O.D.

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hen the print you get is a disappointment, don't blame it on your photo. Probably there is nothing wrong with your color shot—it's all in the print! Or, to be more exact, none of your color quality shows up in the print. The rich color you thrilled to, the exposure you knew was just right, the clarity of detail . . it all comes back to you dull and drab, color washed-out and detail blurred.

Truth of the matter is that each shot you take is taken under its own individual set of conditions, and its processing requires special, "tailored" treatment. If up to now, you've been using a processing house that produces assembly line quality, nine out of ten of your prints just never show what you put into the shots. If you've been using LIFE, there's a different story. You know that each shot gets individual treatment; modern, electronically controlled color equipment actually even compensates for over and under exposures... at LIFE. And personalized attention insures retaining all your true-to-life color and sharp, clear detail.

DELIVERY GUARANTEED ON ALL CHRISTMAS ORDERS RECEIVED BY DEC. 10th.

COLOR PRINTING & DEVELOPING SERVICE WALLET SIZE40¢ 5×7 21/4×31/4 8x10 2.50 504 31/4×31/4 31/4×4 11x14 756 16x2010.00 4x5 . 35mm Color Duplicates Cropping & Dodging on Request Add 50%

ANSCO COLOR & EKTACHROME SHEET FILM PROCESSING

21/4×31/4	o Sheets or Less	Extra
31/4×41/4		20f eq.
4x5	1.50	20¢ ea.
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WAID	2 ***	
Wallet Six	m" Dute me	
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	Larger Thai	21/4×31/4.

FREE COLOR PRINT ALBUM with each order for 6 or more color prints of same size. NOTE: This offer applies to the "wallet," 2½x3½, 3½x3½, 3½x3½, 3½x4 and 4x5 sizes only.

MIN. ORDER \$1—CASH WITH ORDER
Write for our Special "Quantity Discount"
Price Schedule.

LIFE OLABS
12 Third Street, Saratoga Springs, N. Y.

CAMERA GUIDE

(Continued from page 142)

KEYSTONE 16mm MAGAZINE

Film Capacity: All models take 50-ft. magazines of 16mm film.

Lens Mount: All models have C mount.

KEYSTONE K-50 MAYFAIR

Introduced: 1949 (Currently in production)

Viewfinder: Zoom type; for 13mm, 1, 2, and 3-in. lenses.

Operating Speeds (f.p.s.): 8, 16, 24, 64 Shutter Speed at 16 f.p.s.: 1/38 sec. Film Run on One Winding: 9 ft.



Special Features: Single frame exposure; continuous run lock; exposure guide.

Last List Price: With 25mm, f/1.9 lens, \$169.50

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$87-\$101

Serial Numbers: Not available.

Special Identification Points: 1. "K-50" engraved on front of camera; 2. Differentiated from Model K-55 by having single lens mount, instead of turret; 3. Differentiated from Model K-51 by having viewfinder window flush with camera body.

KEYSTONE K-55 MAYFAIR

Note: This model is the same as Model K-50, but has a two-lens turret. Introduced: 1949 Discontinued: 1955

Last List Price: With 25mm, f/1.9 lens, \$189.50

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$97-\$118

Serial Numbers: Not available.

Special Identification Points: 1. "Model K-55" engraved on front of camera; 2. Differentiated from Model K-50 by having turret.

KEYSTONE K-51 EXECUTIVE

Introduced: 1955 (Gurrently in production)

Viewfinder: Zoom type; for 17mm, 1, 2, and 3-in. lenses.

Operating Speeds (f.p.s.): 8, 16, 24, 64 Shutter Speed at 16 f.p.s.: 1/38 sec. Film Run on One Winding: 9 ft.



Special Features: Single frame exposure; continuous run lock; exposure guide; magazine ejector.

Last List Price: With 25mm, f/2.5 lens, \$139.50; with 25mm, f/1.9 lens, \$169.50

Last Reported Used Selling Price Range in 1956: Not available.

Serial Numbers: Not available.

Special Identification Points: 1. "K-51" engraved on front of camera; 2. Differentiated from Model K-50 by having viewfinder-window visor; 3. Differentiated from Model K-56 by having single lens mount, instead of turret.

KEYSTONE K-56 EXECUTIVE

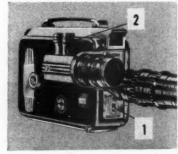
Note: This model is basically the same as Model K-51, but has a two-lens turret, and ground glass throughthe-lens focusing.

Introduced: 1955 (Currently in production)

Last List Price: With 25mm, f/1.9 lens, \$189.50

Last Reported Used Selling Price Range in 1956: Not available.

Serial Numbers: Not available.



Special Identification Points: 1. "K-56" engraved on front of camera; 2. External ground glass focusing finder.

(Continued on page 152)

Camera Club Presidents: Please send us the name and address of your club so it can be listed in the Camera Club section of the Directory of the Photographic Industry. If you are listed you will receive material sent out periodically by certain photographic firms. Write: The Camera Clubs Editor, Modern Photography, 33 West 60th St., New York 23, N. Y.



ONLY PEERLESS MAKES THIS OFFER! SAVE \$22.001 BRAND NEW! LATEST MODEL! assic 35 mm

Camera 35mm CAMERA . CARRY CASE . FLASHOUN

WITH SHARP 12.9 COATED TRIOPLAN LINS



CHECK THESE LUXURY FEATURES:

- Routen Flash Synchronization - Wide Range of 9 Shutter Speeds

- Routen Flash Synchronization - Wide Range of 9 Shutter Speeds

- Routen Flash Synchronization - Wide Range of 9 Shutter Speeds

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DON'T MISS OUT! ORDER TODAY!

PRICES SLASHED TO RECORD LOW! EXCLUSIVE BRAND NEW! IMPORTED, PRISM

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\$159.50

Synchronized for Flash and Strobe Shutter Speeds to 1/500 Second Automatic Film Transport and Shutter Cocking Interchangeable Lens Mount and many

PLENTY ON HAND! ORDER TODAY! BRAND NEW RIVAL WITH:

A Carlo Carlo Sections

f1.9 Coated Pre-Set Meyer. Value 169.50 12 Coated Pre-Set C.Z. Jena, Value \$220.00. 84.95

FASTEST SELLING 35mm REFLEX IN OUR HUGE SELECTION!

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f2.8 Ctd. Pre-Set Lens!

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300-WATT, 2 x 2 BELL & HOWELL-TDC SLIDE PROJECTOR PLUS TDC-BELL & HOWELL SEMIMATIC SLIDE CHANGER AND HANDSOME

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New	
Exa 12.8 Westar MX e* \$ 85.0	00 \$ 36.95
Exakta V, f2 Zeisse*	0 119.95
Exakta VX, 12.8 Tessar, P.S. c* 279.5	0 179.95
Exakta VX, f3.5 Tessar, e* 249.5	
Consol, 12 Zeiss P.S. c* 359.0	0 94,95
Contaffex 12.8 RF e*	
Contaffex II, f2.8 ¢*, R.F	0 109.95
Contax D f2 Biotes	0 84.95
Pentacon, 12.8 P.S. Tessar g* 289.7	5 79.95

35mm CAMERAS

Argus 21, f3.5¢*\$ 59.50	\$ 24.95
Argus C4, 12.8¢°, case & gun 99.50	54.95
Belsey B-2 RF, case and flash 66.50	27.95
Bolsey C22 13.2 Reflex RF ¢* 99.50	37.95
Canen IV-S2, 11.8¢* 284.00	149,95
Contessa, f2.8 Tessar e*	66,95
Graphic 35, f3.5¢*, Case & Gun 89.75	49.95
Kedak Peny 828 f4.5 C*	10.95
Kedak Peny 135 f4.5 C* 29.75	13,95
Kodak Retina II 12 Xenon RF	49.95
Super Certe '35', 12.8¢ Tessar* 52.50	
Kodak Retina III C 12 Xenon c 190.00	109.95
Kedak Signet 13.5¢*, Case, Gun 92.50	39.95
Minelta A. 13.5¢*	30.95
Veigt Preminent 12 RF MXe* 220.00	120.95
Voigt Vitessa f2 RF MXe*	69.95
Veigt Vitessa L, 12,cMX*B.I.M 159.50	99.95
Veigt Vite II 13.5¢* 54.50	18.95
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35mm LEICA, CONTAX

Centax IIA f1.5 Sennar e*\$374.00	\$156.95
Contax IIIA 12 Sonnar c*	173.95
Contax IIIA f1.5 Sonnar e* 412.00	185.95
Leica IIIC f2 Summitar c	111.95
Leica IIIF, 12 Summitar ¢* 368.00	143.95
Leica HF, f2 Summitar e* 289.00	112.95
Leica IF, 12 Summitar e* 228.00	77.95
Leica IIIF f2 Summicron e* 336.00	164.95
Leica IIIF f1.5 Summarit ¢* 357.00	169.95

35mm STEREO CAMERAS

RAS
\$187.95
39.95
275.95
68.95
54.95
16.95
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ADDS NEW VERSATILITY TO YOUR PRAKTICA, RIVAL, HEXACON '35', CONTAX 'D' OR PENTACONI

135mm 14 Coated Pre-Set C.Z. Triotar List \$85.00! Brand New

135mm f4.5 Coated Albinar. List \$59.50! Brand New, Only.....

250mm f5.5 Coated Tele-Megor. List \$132.95! Brand New, Only.....

400mm f5.5 Ctd. Pre-set Tele-Megor List \$199.50! Brand New, Only.....11950

PLENTY ON HAND! OFFER TODAY!



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FANTASTIC PEERLESS EXCLUSIVE OFFERI

Famous FLE

SUPERLATIVE TWIN-LES · With f3.5 Coated Lons! · Full MXV Synchr

*Deleyed-Action Self-Timer!
Other Features include: Wide Range of Sh
Speeds to 1/300 *Fingertip, Geared Foc
Convenient Trigger Sautter Release,
All-Metal Construction -Takes 12-21/x21/4
THE BUY OF THE YEAR! ORDER NOW!

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FEDERAL Enlargers

FEDERAL 269 With 31/2" Coated Lens List Price \$43.95, Now Only

FEDERAL 279

FEDERAL 311

Complete Super

35mm CAMERA · CASE · FLASHGUN 12.8 COATED LENS

Bell & Howell

WITH 13.5 COATED XENAR LENS

IMMEDIATE DELIVERY on the AMAZING BELL & HOWELL

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MIRACLE 16mm MAGAZINE MOVIE CAMERA Featuring Automatic "ELECTRIC EYE"

Trosts LESS AT PERHESS Since we'll accept ANY Mo-vie Camera in Liberal Trade ... Regardless of Make, Model, or Condition! Don't CHECK THESE FEATURE

ARGUS 35mm Camera Outfit

CAMERA · CASE · FLASHGUN F3.5 COATED LENS

Famous Kin-Dar

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BRAND NEW! PRECISION-ENGINEERED! | ORTABLE PITS ALL CAMERASI EASY TO USE AS A FLASHGUNI

AC Unit with Mounting Value 334.93

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CAMERA GUIDE

(Continued from page 148)

KODAK

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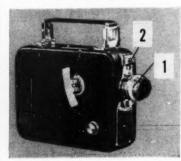
KODAK 8mm ROLL

Film Capacity: All models take 25-ft. rolls of double-8mm film.

CINE-KODAK EIGHT, MODEL 60

Introduced: 1932 Discontinued: 1947 Lens Mount: Special bayonet

Viewfinder: Eye-level. Shows field for normal and tele lens with which it could be interchanged.



Operating Speeds (f.p.s.): 16 Shutter Speed at 16 f.p.s.: approx.

Film Run on One Winding: About 5 ft.

Special Features: F/1.9 lens interchangeable with 1½-in. lens; builtin exposure guide; eye-level finder combined with snap-back carrying handle; continuous run lock.

Last List Price: With 13mm, f/1.9 Anastigmat lens, not available.

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$37-\$48

Special Identification Points: 1. Differentiated from Model 20 by having interchangeable lens; 2. Lens mount release.

CINE-KODAK EIGHT, MODEL 20

Note: This model is similar in appearance and operation to the Model 60 shown above. However, it has a fixed-focus, non-interchangeable lens.

Introduced: 1933 Discontinued: 1946 Last List Price: With 13mm, f/3.5 Anastigmat lens, \$30.50

Last Reported Used Selling Price Range in 1956: With f/3.5 lens, \$14-\$18

Special Identification Points: Same as Model 60, but has a non-interchangeable lens.

CINE-KODAK EIGHT, MODEL 25

Note: Except for a faster, f/2.7 lens, this camera is exactly the same as the Model 20 above.

Introduced: 1933 Discontinued: 1949 Last List Price: With 13mm, f/2.7 lens, \$61.50

Last Reported Used Selling Price Range in 1956: \$22-\$30

Special Identification Points: 1. Differentiated from Model 20 by f/2.7 lens.

KODAK 8mm MAGAZINE CAMERAS

Film Capacity: All models accept 25ft. magazines of double-8mm film.

CINE-KODAK MAGAZINE EIGHT, MODEL 90

Note: This was later known as the Cine-Kodak Magazine Eight (see photo below).

Introduced: 1939 Discontinued: 1956 Lens Mount: M

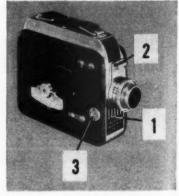
Viewfinder: Adjustable eye-level finder; shows field of view for accessory lenses up to 63mm.

Operating Speeds (f.p.s.): 16, 24, 32, 64 Shutter Speed at 16 f.p.s.: 1/30

Film Run on One Winding: Not available.

Special Features: Die-cast body; exposure guide; accepts accessory lenses with Type M adapter.

Last List Price: With 13mm, f/1.9 Anastigmat (later models have Ektanon) lens, \$149.50



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Last Reported Used Selling Price Range in 1956: With f/1.9 Ektanon lens, \$69-\$82

Special Identification Points: 1. Name plate on front of camera; 2. Interchangeable lens; 3. Differentiated from Model 90A by range of operating speeds.

CINE-KODAK MAGAZINE EIGHT, MODEL 90A

Note: This camera, later known as the Cine-Kodak Magazine Eight A, is the same as the Cine-Kodak Maga-

zine Eight, shown below except for operating speeds.

Introduced: 1941 Discontinued: 1948 Operating Speeds (f.p.s.): 8, 16, 24, 32 Last List Price: With 13mm, f/1.9 Anastigmat lens, \$122.10

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Differentiated from the Model 90 by operating speeds.

CINE-KODAK MAGAZINE EIGHT

Note: This camera is the same as the Cine-Kodak Magazine Eight, Model 90 (above) except for a fixed focus lens and non-adjustable finder.

Introduced: 1950 Discontinued: 1952 Last List Price: With 13mm, f/2.7 fixed focus Ektanon lens, \$124.15

Last Reported Used Selling Price Range in 1956: With f/1.9 lens,

Special Identification Points: Differentiated from Cine-Kodak Magazine Eight, Model 90 by: 1. Fixed focus lens; 2. Non-adjustable finder.

CINE-KODAK RELIANT



Introduced: 1949 Discontinued: 1954 Lens Mount: D

Viewfinder: Eve-level. Shows field of view for 13, 9, and 38mm accessory lenses as well as for 13mm lens.

Operating Speeds (f.p.s.): 16, 24, 32,

Shutter Speed at 16 f.p.s.: 1/30 sec. Film Run on One Winding: Not available.

Special Features: Continuous run lock; die-cast body; exposure guide; eye-level finder in snap-back han-

Last List Price: With 13mm, f/2.7 Ektanon lens, \$84.50; with 13mm, 1/1.9 Ektanon lens, \$104

Last Reported Used Selling Price Range in 1956: With f/1.9 Ektanon lens, \$59-\$67

Special Identification Points: 1. Name plate on front of camera.

CINE-KODAK MEDALLION

Introduced: 1955 (Currently in pro-

(Continued on page 154)

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CAMERA GUIDE

(Continued from page 153)

Lens Mount: D

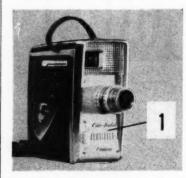
Viewfinder: Zoom-type optical finder adjusts to show field for lenses from 6.5mm to 38mm.

Operating Speeds (f.p.s.): 16, 24, 32, 48 Shutter Speed at 16 f.p.s.: 1/30 sec. Film Run on One Winding: 8 ft.

Special Features: Single frame exposure; continuous run lock; exposure guide; zoom-type optical finder.

Last List Price: With 13mm, f/1.9 Ektanon lens, \$144.50

Last Reported Used Selling Price Range in 1956: Not available.



Special Identification Points: 1. Name plate on front of camera.

KODAK 16mm ROLL

Film Capacity: All models take 100-ft. rolls of 16mm film. However, the Cine-Kodak Specials, I and II, have 100 and 200-ft. film chambers.

CINE-KODAK MODEL K, F/3.5

Note: This camera is the same as the Cine-Kodak Model K, f/1.9, below, except for the lens.

Introduced: 1930 Discontinued: 1935 Last List Price: With 20mm, f/3.5 Anastigmat lens, \$112.50

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Name on medallion under carrying handle.

CINE-KODAK MODEL K, F/1.9

Introduced: 1930 Discontinued: 1946 Lens Mount: J bayonet.

Viewfinder: Eye and waist-level finder shows field of view for 15mm, 3 in. and 41/2 in. accessory lenses, and 20mm normal lens.

Operating Speeds (f.p.s.): 8, 16 Shutter Speed at 16 f.p.s.: 1/85 sec. Film Run on One Winding: Not available.

Special Features: Continuous run lock: exposure guide; half-speed feature (by pressing a button while motor is running, exposure time can be doubled).



Last List Price: With 25mm, f/1.9 Anastigmat lens, without case, \$97.50; with case, \$112.45

Last Reported Used Selling Price Range in 1956: \$56-\$72

Special Identification Points: 1. Name on medallion under carrying handle; 2. Waist-level finder.

CINE-KODAK MODEL E, F/1.9

Introduced: 1937 Discontinued: 1946 Lens Mount: C

Viewfinder: Focusing range from 2 ft. to infinity. Shows field of view for 15, 63, 76, 102, and 114mm accessory lenses as well as normal lens. Operating Speeds (f.p.s.): 16, 32, 64

Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: Not available.

Special Features: Same as for Cinc-Kodak Model E, f/3.5, below.

Last List Price: With 25mm, f/1.9 focusing Anastigmat lens, \$72

Last Reported Used Selling Price Range in 1956: \$51-\$60

Special Identification Points: 1. Name large on front plate; 2. Large round



viewfinder front window; 3. f/1.9 lens is in a focusing mount.

CINE-KODAK MODEL E, F/3.5

Note: This camera is similar in appearance to the Cine-Kodak Model E, f/1.9, illustrated above, except for differences noted.

Introduced: 1937 Discontinued: 1946 (Continued on page 158)



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Contax IIA Sonnar 12 34	15.80	134.50
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Rodak Rotina IIIC 12	99.00	113.9
Leisa IIIF (2 Summicres 3:	96.00	158.5
Laica NG 12 Summicres 4	17.88	287.9
Nikon S2 Nikker 02	19.50	184.00
Hilton S2 Mikker (1.4 3	15.00	219.90
Veigtlander Villa B	16.50	28.5
Zeiss Contaffex I fZ.8	18.50	88.30
Zeiss Contoffex II 12.8	10.50	118.5
Exakta VX, P.P. RF (1.9	N.70	180.0
Nasselblad (1000 12.8	19.16	192.50
Praktiflex f2.8 Wester	PR.500	84.3
Exakta VX PP RF 12 Bieter 31	2.00	199.30
Rolleicord V MX 13.5 Xeaur	18.50	84.3
Relicifiex C3.5 Xenor MX 21	7.00	112.84
Rolleitlez f3.5 Tessar MX21	2.50	121.8
Belleiflex 2.88 Xenetar MX	17.00	172.00
Rolleiflex E3.5 Tessar M		78.00
Argus 21		22.30
Contact S EZ. Sherer		80.00
Relieieerd III		40.0

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Speed Graphic 4u5 w/W-FL 14.5 Syn. oc	144.98
Century Graphic 216x316 54.5132.50	38.54
Minex 1015 13.5 130.50	74.96
Polaroid Highlander 80.95	38.86
Plaubel Makine (13 12.8	48.96
Pelaroid 700	88.36
Sx12 View Camera	20.00
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B&H 134W Composion f2.5	88.86	36
8&H 1340 Sportster (2.5	98.80	42
BBN 134TA 12.5	178.85	- 88
94N 220 12.5	38.86	- 78
B&H 2S2 Montervy (2.3	8.8	. 34
Balex 86 f1.9 Talf1.9 WA	249.50	186
Belex C8 (2.5	89.30	42
Bolez 108 (1.9, 1" (1.6, 6.9" (1.9.	478.80	284
E.K. Brownie (2.7	37.98	18
E.K. Brownio fl.8	44.30	24
E.K. Brawnie fl.9 Turret	79.50	46
Sixter Citation 12.5	77.90	- 44
Below Emboczy Mag, 12.5	186.95	52
Keystone Capri K25 11.9	88.95	28
Keystone Olympic K33 (2.5	84.95	42
Kaystone Olympic K33 (1.9	184.98	82
Keystone Selair K42 12.6	94.95	47
Boyers AB w/Pan Ciner	254.80	134
Revore 41 MAC (1.9 FM	129.90	98
Revore 44 MAC (2.5	120.00	88
Revore 45 MAC 11.0 FM	164.90	82
Bayers 50 (2.8 FF	49.90	94
Severa 50 12.5 Well, FF	87 08	44

16mm MOVIE CAMERAS

Smm & 16mm PRI	DJECTO	RS
	Hour	Bood
BAN 122 Regent, oc SANN		
W/reverse Belex 68-16	179.98	89.56
Belez 68-16	338.58	189.25
B&M 122 Regent, oc		
500 W w/reverse	179.95	89.50
BBH 253 Monterey, on SBBW	98.95	36.56
Bail 253 Monterey, on 1984 Bolex ING 500W on	166,50	84.98
Kedak Brewsie 300W cc	82.80	37.89
Bejur 750 750W es Dejur 1000 1000W es	106.86	83.98
DeJar 1000 1000W cc	181.00	81.38
Keystone Bright Boom K70		
500W CC	74.95	37.88
Keystene K96		
Reystone KB6 750W es Reystone K100M	123.00	84.29
Keystone K10000		
	39.85	47.86
750W Spl. cc Bavere 650 500W oc Revere 90 500 or 730W oc	198,50	84.86
Bevere 858 500W oc	124.50	47.58
Revere 96 566 or 700W oz	198,50	84.89

Revere 777 500W oc 127.50 79.50 BEN Diplomet 173 1000 W co 290.95 149.50

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New	Gee
0.5" f1.5 Cine Baptar 85.65	27.9
0.5" f1.5 Elgeet 96.70	47.5
18mm (1.8 Switar 90.90	51.5
18mm 12.8 Year 60.50	38.8
17mm 12.7 Ciso Reptur FF 34.45	17.8
17mm 12.5 Sun 38.5%	17.9
1" fl.9 Eigest 50.35	28.9
1" (1,5 Eigost 80.00	48.8
1" 11.9 SAN TYN 08.93	43,9
1" 12.5 B&H Comdt FF	39.8
1" 18.95 Angenioux	186.9
1" £1.4 Switter	88.5
1" 11.5 Switzer	57.9
1" f1.9 Pizar 89.50	48.9
1" (1.5 Cine Rapter 92.75	46.3
1" (1.9 Cine Rapter	32.5
	40.8
25mm (1.5 Cine Ektar 185.00	82.8
2" f1.4 Switar 180.50	92.9
3" 17.9 Elguot	24.5
3" 12.6 Yvar 94.90	47.9
3" 17.5 Cine Booler 87.00	

	How	Used
5.5mm 12 Pizar, PF	79.50	49.50
5.5mm f1.8 Switer, FBC	119,50	69.54
7mm f1.8 FF Volper	59.95	20.00
0.5" [1.5 Switar, FBC	114.99	57.96
0.5" [1.9 Yver, FBC	74.90	35.00
8.5" (2.5 Yver, FBC	49.50	36.86
13mm f1.5 Xonon, FBC	100.30	49.00
13mm 11.8 Cine Ektones, FBC	41.88	25.86
1.5" (2.5 Cine Raptar, FBC	\$7.78	26.00
1.5" Pl.5 Cine Raptar, FBC	87.59	30.00
1.5" (1.9 FM Unite)	89.95	18.9
38mm f2.5 Cine Ektenon,		
FOC (E.K. MR.)	90.00	25.00
FOC (E.K. Mr.) 7mm (2.7 FF Cinemater	82.58	29.90
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			How	Wood
21mm Biogra	16.5 WA		246,08	149.90
35mm Summ	eree (3.5)	III	98,00	54.00
35mm Hilde	12.5 WA		130.50	99.96
35mm Biogra	a 12.8 Wi		183.00	94.90
35mm Serve	er (2.8		116.88	46.56
10mm Nikke	a (2		99.00	48.38
10mm Hikke	n fl.A		190.50	20.50
Sümm Sonno	r (2		146.80	74.90
Sõmm Summ	Nat 52		. 86.00	44.80
Silmen Summ	ark (1.8		177.80	84.86
R5mm HMdar	11.5		296.00	140.36
Rimm Znies			229.00	114.80
Himm Hikke	12		175.00	82.80
SSMOR SOFER	M (1.3		230.00	119.30
Stem Summ	eres 11.8	*********	38.80	180.00
Bloom Sanno	r 62		229.00	100.95
99mm Elmer	M		96.80	49.80
100mm Case	B 1.4		N.R	47.00
199mm Hilds	or 12.8		152.88	76.80
125mm Hekt	BF 14.5		135.00	72.90
135mm Cone	e 13.6		130.89	85.00

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68 46 E Avendania 1995	00.00 40.0
Street 12.5 Augment Will	M.M. 19.5
40mm 13.9 Motty-Killer	\$6.30 ACA
50mm 11.5 Augunitum	105.00 75.5
50mm f2.8 Tesser pre-oot	68.00 12.5
50mm 12.8 Westanar	68.50 30.0
Silmon (2 Biolog pro-ent	125.88 42.5
75mm f1.5 Biotor	216.00 180.8
Simm 19 8 Stateball	05.00 97.0
Office 41 0 Associate	140.00 30.0
Committee Augustion	110.00 /0.0
135mm tx.5 Seegar pro-out	119.00 46.0
135mm 13.5 Kellmar pro-oct	140.50 50.0
135mm C3.5 Arco College	38.90 19.9
135mm 14.5 Xoner	84.96 42.8
135mm 64 Triotar	75.86 37.8
240mm IS.S Xoner	124.96 82.6
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	Kodachrome, 25 ft. mag11.25	9.30
	Kodachrome, 50 ft. mag17.85	14.75
	Kodachrome, 100 ft, roll21.45	17.15
620 or	120 Kodacolor 3.75	3.00
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828 K	odachrome 3.00	2.40



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| Very fell, 9 Standard, Foc. ... 12, 93
| 1/2" fell, 9 Standard, Foc. ... 12, 93
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| 1/2" fell, 9 Standard, Foc. ... 12, 93
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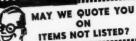
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Reg.	49.65 Pony 135 Camera Outfit	38,95
	(Pony 135 Camera, Case, Flasholder)	
Reg.	65.45 Town & Country Camera Outfit	49.95
	(Bantam R.F. Camera, Case, Flasholder)	
Reg.	91.45 Signet 35 Camera Outfit	69.95
	(Signet 35 Camera, Case, Flasholder)	
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ı	> (0	Dea	139.50	Kodak							143.0
L		-		Camer	a f:2.8							106.00
ı.	13.50	Retina	HILC	Leather	Case						,	10.00
i.	62.50	Retina	Curta	ar Lens	35mm	f:5.	6					49.00
i.	32.50	Retina	Long	ar Lens	80mm	f:4						65.00
i.	17.50	Retina	35-80	Optica	I Find	er .						13,50
i.	33,75	Kodak	Pony	135C Ca	mera i	f:3,5						25,95
i.	75.00	Kodak	Signe	t Came	ra f:3	.5 .						59,50
i.	89,50	Graphic	35 (amera	f:3.5,	Case	. 1	FI	as	h		67.5
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Reg. 29.95 Brownie Movie Camera 8mm, f2.27 29.50 Rmm, f2.23 29.50 Rmm, f2.23 Reg. 44.50 Brownie Movie Camera 8mm, f2.19 29.50 Reg. 44.50 Brownie Movie Camera 8mm, f2.19 Reg. 19.50 Kodak Medallion 8mm 71.90 Cine Kodak Special 11, f1.9 97.50 27.90 Cine Kodak Special 11, f1.9 97.50 27.90 Cine Kodak K-100 Turret, f2.19 239.50



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Reg. \$21.95 Conway Price. \$ 1295



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CAMERA GUIDE

(Continued from page 154)

Lens Mount: Threaded, special. Viewfinder: Fixed-focus, eye-level enclosed finder.

Operating Speeds (f.p.s.): 16, 32, 64 Shutter Speed at 16 f.p.s.: 1/35 sec.

Film Run on One Winding: Not available.

Special Features: Die-cast aluminum body; viewfinder shows subject, footage used on subject, unexposed film remaining: exposure guide; electric motor was available as accessory

Last List Price: With 20mm, f/3.5 fixed focus Anastigmat lens, \$42

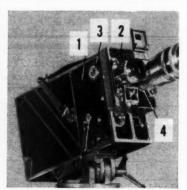
Last Reported Used Selling Price Range in 1956: \$26-\$33

Special Identification Points: 1. Name small on front plate; 2. Small, square front viewfinder window; 3. Fixed focus f/3.5 lens.

CINE-KODAK SPECIAL I

Note: Some Cine-Kodak Specials, Model I have been modernized to include some features of the Cine-Kodak Special II.

Introduced: 1933 Discontinued: 1948



Lens Mount: P bayonet

Viewfinder: Eye-level and reflex finder. Reflex finder operates with all lenses supplied: 15mm, 2-in., 3-in., 41/9-in., 6-in.

Operating Speeds (f.p.s.): 8, 12, 16, 24, 32, 48, 64

Shutter Speed at 16 f.p.s.: Variable. Film Run on One Winding: 40 ft.

Special Features: Variable shutter; single frame exposure; continuous run lock; reverse crank; interchangeable film chambers; frame counter; electric motor available as an accessory; two hand cranking shafts (one for 8 f.p.s., one for single frame).

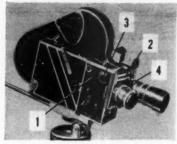
Last List Price: With 1-in., f/1.9 Anastigmat lens, and 100-ft. chamber,

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$310-\$352

Special Identification Points: 1. Name

on side; 2. Flat turret plate; 3. Flush pressure knob for changing shutter speeds; 4. Bayonet P mounts.

CINE-KODAK SPECIAL II



Introduced: 1938 (Currently in production)

Lens Mount: S bayonet.

Viewfinder: Eye-level and reflex finder. Shows field of view for any Kodak Cine lens.

Operating Speeds (f.p.s.): 8, 12, 16, 32, 48, 64

Shutter Speed at 16 f.p.s.: Variable. Film Run on One Winding: 38 ft.

Special Features: Single frame exposure; two-lens turret accepts any combination of Kodak Cine lenses. Other features same as for Cine-Kodak Special I.

Last List Price: With 25mm, f/1.9 Ektar focusing lens, \$1195; with 25mm, f/1.4 Ektar focusing lens, \$1280

Last Reported Used Selling Price Range in 1956: With f/1.9 Ektar, \$538-\$667; with f/1.4 Ektar, \$580-

Special Identification Points: 1. Name on side; 2. Offset turret accepts wide range of lenses; 3. Knurled knob for changing shutter speeds; 4. S bayonet mount.

CINE-KODAK K-100

Introduced: 1955 (Currently in production)

Note: This camera is the same as the Cine-Kodak K-100 Turret camera illustrated below, except that it has only a single lens mount. Can be converted to turret model.

Lens Mount: C

Viewfinder: Viewfinder shows field for 25mm lens, but is interchangeable with telescopic viewfinders to show field for 15, 40, 50, 63, 75, 102, 152mm lenses.

Operating Speeds (f.p.s.): 16, 24, 32, 48, 64

Shutter Speed at 16 f.p.s.: 1/35 Film Run on One Winding: 40 ft.

Special Features: Single frame exposure; new type spring motor; interchangeable telescopic viewfinders with individual eye-adjustment controls; extra field of view around

(Continued on page 162)



CONTACT PAPER

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 12
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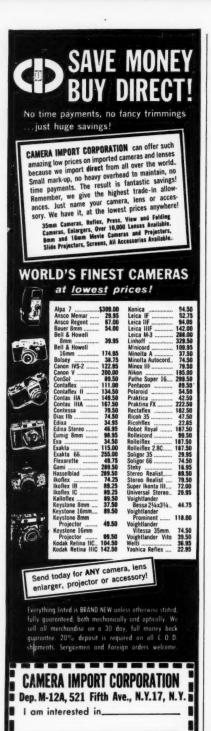
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CAMERA GUIDE

(Continued from page 158)

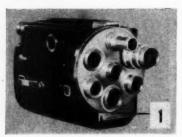
rectangle in viewfinder; nylon gears; single frame release; auxiliary hand crank; exposure guide; spring motor dial; continuous run lock; reverse crank.

Last List Price: With 25mm, f/1.4 Ektar II lens, \$379; with 25mm, f/1.9 Ektar II lens, \$279

Last Reported Used Selling Price Range in 1956: With f/1.9 Ektar lens, \$154-\$189

Special Identification Points: 1. Name "K-100" on front.

CINE-KODAK K-100 TURRET CAMERA



Introduced: 1956 (Currently in production)

Note: Except for its turret, this camera is the same as the K-100 described above.

Special Features: Turret holds any three Kodak Cine Ektar lenses and corresponding individual telescopic viewfinders which automatically position with swing of the turret. Turret is offset to eliminate physical or optical interference by lenses.

Last List Price: With 25mm, f/1.9 Ektar II lens, \$315; with 25mm, f/1.4 Ektar II lens, \$415

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Name "K-100 Turret Camera" on front; 2. Turret.

KODAK 16mm MAGAZINE

Film Capacity: All models take 50-ft. magazines of 16mm film.

CINE-KODAK MAGAZINE 16

Introduced: 1936 Discontinued: 1949 Lens Mount: M

Viewfinder: Eye-level, in .snap-down handle, for eight lenses from 15mm to 6 in.

Operating Speeds (f.p.s.): 8, 16, 64 Shutter Speed at 16 f.p.s.: 1/30 sec. Film Run on One Winding: 9 ft.

Special Features: Continuous run lock; "pulse" button indicates scene length while eye remains at view-finder.



Last List Price: With 25mm, f/1.9 Anastigmat, \$160

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$68-\$87

Special Identification Points: 1. M mount for interchangeable lenses; 2. Shutter release is lever in recess on side of camera, at front end; 3. Differentiated from later Cine-Kodak Magazine 16A by operating speeds.

CINE-KODAK MAGAZINE 16A

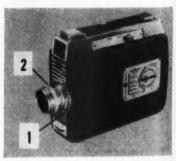
Introduced: 1942 Discontinued: 1950 Note: This camera is the same as the earlier Cine-Kodak Magazine 16, except for the operating speeds.

Operating Speeds (f.p.s.): 8, 16, 24 Special Features: Lenses were Lumenized (Kodak coating process). Rest same as Cine-Kodak Magazine 16. Last List Price: With 25mm, f/1.9, \$150

Last Reported Used Selling Price Range in 1956: Not available.

Special Identification Points: 1. Differentiated from earlier Cine-Kodak Magazine 16 by operating speeds.

CINE-KODAK ROYAL MAGAZINE



Introduced: 1950 (Currently in production)

Lens Mount: C

Viewfinder: Internal zoom-type optical, for lenses from 15mm to 152mm. Operating Speeds (f.p.s.): 16, 24, 64 Shutter Speed at 16 f.p.s.: 1/30 sec. Film Run on One Winding: 9 ft. Special Features: Single frame expo-(Continued on page 164)

I wish to trade_

Name_

Address__

Please Mail FREE Quotation-No Obligation To Buy

State

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Wonderful for Gifts! down-to-earth prices 1

NEW REDUCED PRICES

600mm f5 ASTRAGON

LONG DISTANCE LENS FOR EXAKTA, PRAKTICA. HASSELBLAD, etc.



400mm f5 ASTRAGON, pre-set. 149.50 500mm f5 ASTRAGON ... 244.00 800mm f5 ASTRAGON ... 495.00 800mm f5.3 ASTRAGON ... 695.00

BRAND NEW 3950 10% DOWN IMMEDIATE DELIVERY

IMPORTER'S CLOSEOUT DISCONTINUED MODEL



Royalcord WITH 13.5 COATED LENS WHILE THEY LAST!

Shutter speeds 1 sec to 1/300th. Sync for flash; body shutter release; semi-automatic film wind; built in self timer.

BRAND-NEW 3995

\$5.00 DOWN IMMEDIATE DELIVERY

IMPORTER'S CLOSEOUT 1955 DISCONTINUED MODEL



All famous in-BRAND-NEW terchangeable features. Reg. \$85.00 Case 7.95 1.25 BC Flash 5.95 post 6 ins

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Same with eye level prism rangefinder (instead of waist level finder) and \$22.50.

PRICED LOWER 400mm f5.5 MEYER TELE MEGOR

REFLEX 66

f3.5 coated lens chro. Interchangeable lenses. Gross s focus. Reg. \$134.50

Case 8.50
1.80 post 4 ins
E flashgun with
ach purchase

BRAND-NEW

6950

f2.8 coated Zeiss TESSAR

ZEISS PRISMASCOPE

BRAND-NEW 8850
case 9.75 1.35 post 8E10
18% DOWN IMMEDIATE DELIVERY

x 5 B & J SPEED PRESS 14.5 STEINHEIL UNOFOKAL

WIDE ANGLE LENS

COMPUR-RAPID SYNCHRO For all 4x8 and 31/4x41/4 press, hard coated optics. BRAND-NEW

Compur-Synchro Press Famous German-press lens. Cpld rangefinder, flashgun BRAND-NEW 14795

10% DOWN IMMEDIATE DELIVERY

ASTRAFLEX 35

1.85 post & ins

90mm f6.8 LEITMEYR

BRAND-NEW

400mm f5.5
TELE-ASTRA PRE-SET
In focusing mount, for EXAKTA, BRAND 9950
PENTACON etc., (as illust)
REW 9950

FREE flashgun with each purchase

Pre-set diaphragm.
For EXAKTA,
PENTACON
Reg \$199.50.119.50
Brand-New 119.50

10% DOWN (deposit) BUYS ALL.... CONVENIENT PAYMENTS

Pay balance in convenient budget pay-ments. Select cameras, include note giving: age, occupation, 3 references. Subject prior sale. Add 1.50 post & ins

NEW EXCLUSIVE PURCHASE PLAN

Choose your camera in the condition YOU desire. Column A-I is used but LIKE-NEW CREAM-PUFF CONDITION. B-I is definitely used. YOUR CHOICE, Add postage.

35mm CAMERAS

Argus C-3, f3.5, case and flash, 69.50	A-1 42.50	B-1
		34.95
Argus C-4, f2.8 84.50	55,50	42,50
Bolsey B, f3.2 54.00	22,50	19,95
Canon IV, f1.8284.00	189,50	121,50
Contessa, f2.8 ctd159.50	84,95	65,95
Contaflex 1, f2.8 ctd159.50	87,50	67,50
Contaflex II, f2.8 ctd199.50	157,50	109,00
Contax D, f2 Biotar292.00		84,50
Graphic 35, f3.5, case and flash 66.00	54.00	44,50
Kodak Signet, f3.5 75.00	49.50	36,00
Madak Betina 111a 49 and 100 00	120 50	107 00

33		31	IV			1031	010	JK3
300w	TDC I	Aainlin	er. B	C .		 . 59,50	42,50	25.00
300w	TDC 2	1/4×21/	4 Duo			 67,50	42,50	27.00
						67,50	44,50	26,95
500w	LaBel	le 55,	BC .			 95.00	58,00	42.25
500w	LaBel	le 75,	BC			 154,95		89.00
300w	Golde	Man.	BC .			 . 56.50	38,00	20.00
300w	Golde	Reflex	(21/4	×2	1/4			45.00

21/4 x 21/4 REFLEX

	-	
Ikoflex, II A, f3.5	99,50	68,00
Hasselblad, f2.8 Ektar379.50	239.50	191,50
Minolta Autocord, ctd f3.5 99.50	67.50	53,00
Rolleicord V, f3.5 ctd 149.50	89.50	72.50
Rolleiflex, f3.5 Tessar, symc	123.50	99.50
Rolleiflex, f3.5 Tessar MX229.50	145.50	110.95
Rolleiflex, f2.8 MX	216.50	169.50

DRESS CAMERAS

FRESS CAMERAS			
21/4x31/4 Busch, f4.5, CRF149.50	105,00	67,50	
Graphic, f4.5 CRF347.00	172,50	124,00	
4x5 Ann Speed Graphic, f4.7 Ektar, cpld RF	122.50 167.50	109,00	
4x5 Ann Speed Graphic, f4.7 Ektar sync, cold RF	132.50	117.50	
4x5 Pace Speed Graphic, f4.7 ctd Ektar, sync, CRF			
4x5 Crown Graphic, 135mm f4.5,	127,50		

NEW REDUCED PRICE

AMIFLEX II f3.5 coated AMITAR

nchro ?hutter speeds ell sec to 1/300th.
Sold only with case.
se 4.50 Flashgun 3.50

BRAND-NEW 1.50 post & Ins.

LATEST SYNCHRO MODEL With Coupled Rangefinder

This famous 35mm camera with coated lens and shutter speeds to 1/200, new offered...

BRAND-NEW 2995

5.00 DOWN IMMEDIATE DELIVERY

NEW REDUCED PRICE 7" 12.5 FOCUSING AERO EKTAR

For EXAKTA, PRAKTICA, et Famous speed-tele lens in precision focusing mount, Gov't cost of lens alone over \$600.00. BRAND- 11750

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EXTRA POWERFUL, SHARP 16 x 50 BINOCULARS

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Add 10% TAX 1.00 pest

THE PHOTO ELECTRIC METER WITH A MEMORY

MINILUX

ASA reading 30 secs to 1/1000. to f22. Incident or reflected reading. Regular 11.95. BRAND NEW 495

FREE Case & 18k gold plated chain.

NEW REDUCED PRICE 11/2" fl.4 AMITAR FOR ALL Smm CAMERAS

BRAND-NEW 1995

7.5mm f1.4 wide angle...34.95 3" f1.9 (16mm tele)....27.50 Case 75c post 65c



3 for 43.50

Sterling Howard, News Letter, Interesting reading for both amatuer
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PHOTOGRAPHIC WHOLESALERS!

EXCLUSIVE—RADIANT
Portable Tripod Screens
Crystal beaded 1956 Model



Brand New FEDERAL Enlargers CLEARANCE CLOSE-OUT SPECIAL List SPECIAL

ns 279C, Diffused, f6.3 27.85 lens Carrying case for 269 or 279C 32.95 279C table for 269 or 7, 25 No. 269CI, Cold Light, 76.3 857.95 37.10 No. 311, Sgl. Cond. F4.5. 879.95 46.00 No. 450, Diffused, 74.5

SUNRAY ENLARGERS & EASELS AWON

Zenith 35mm, Dble. Cond., 2", f4.5 lens ..\$74.50 29.00 87.50 53.00

> PRE-CHRISTMAS SPECIAL! **Brand New!**

SOLIGOR "45"

35mm Camera Outfit complete with eveready case and folding pocket flash Ctd. 40mm., f4.5 Solfgor lens in focusing mount. Shutter speeds to 1/200 sec. & B. Built-in flash synch. Optical viewfinder.

AWON SPECIAL\$1695



4-LITE FOLDING MOVIE BAR LIGHT with sturdy metal case and 7 ft. HEAVY duty cord reg. \$16.95 SALE \$7.95

Bulbs remain on bar when in case \$1 each with purchase of bar.

SPECIAL SALE

METAL CASE for 12 Slide Trays
Dust-proof protection for your color slides. Holds up
to 12-2x2" TDC. Viewlex or Airequipt Trays.

12 Viewlex or TDC trays (Holds 360 slides) ..\$ 4.95 12 Airequipt trays (Holds 360 slides) 17.95

EDITING EQUIPMENT

Mansfield 8mm Action	Editor	Reg. \$39.95	
Mansfield DeLuxe 8mm A	ction Editor .	59.50	25.95
Mansfield DeLuxe 8mm Po	ortable, w/case	46.00	23.95
Craig 8mm or 16mm Port	table w/case .	79.50	53.95
All Editors Include R	ewind, Splicer	& Base	board

TRIPOD SALE!

Ordet Cat Comme C Cat Star	Reg.	SALE
Quick Set Super, 3 Sect., Elev., w/Pan Head	\$32.50	\$22.95
Quick Set Latest, 3 Sect., Elev., w/Pan Head	29.50	17.95
Star D-18, 3 Sect., w/Pan Head	15.40	8.97
Star D Conquest, 3 Sect., Elev., w/Pan Head	19.95	13.30
w/Swing Over Tilt	22.50	15.75
Alpex, 5 Sect., All Brass, w/Pan Head	10.95	5.45
Alpex, 7 Sect., All Brass, w/Ball Joint	13.95	6.95

TELEFOTO and W. A. Aux. Lenses

C4 Ansco Speedex Special Ansco Speedex Ansco Titouni Bolex C8, 88, H8, H16 Saldina Special Solsey B, B2, C

Argus A. 2. 3. Contessa f2.6 Gontessa f2.6 G and most other cameras. Specify camera

Save an extra \$3. Buy both for just \$29.95

Brand New! Latest Model German Import!



REFLEKTA II

Twin Lens Focusing Reflex • f3.5 ctd. lens • Built-in flash synch. • 9 shutter speeds • Dble. exp. prev. • All-metal • 12 21/4 x 21/4 exposures on 120 film • Body shutter release • Many features of more expensive cameras

Limited Awon Offer Eveready case. Reg. \$9.95\$3.95

Fabulous Half-Price STEREO Offer

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- f3.5 ctd. lenses • Full focus &
- Twin optical systems e Dual SOOW.
- Fan cooled

Reg. \$99.50 SPEC. \$4995

EXTRA Suy Both for the amazing low price of \$94.95 and get a FREE leather case for your lioca camera.\$9495
This total value of \$234.45 all for only......

ELECTRONIC FLASH OUTFITS AWON

Reg. \$125 SPEC. \$4995

Reg.	PRICE
Ultrablitz Expert IV, A.C. or Batt\$70.00	\$44.95
FR Model 2. AC or Batt 54.95	37.95
IR Model 3, AC or Batt 54.95	36.95
DeJur Baby Blitz 39.50	26.95
And your old flashgun in trade	

KODACHROME PROCESSING

35mm x 20 exp., mtg.	\$1.05
35mm x 36 exp., mtg.	2.05
	1.05
	1.05
16mm x 100 ft. roll	2.55

All film returned via insured mail. Check or Money Order must accompany film.

NEW EXPOSURE METERS

The New SEKONIC LEADER, complete with case & chain. AWON PRICE—86.50 New SEKONIC COMPACT, complete with case. Reg. \$9.95. AWON PRICE—86.50 NORWOOD DIRECTOR M-2

List \$32.50 AWON PRICE—\$23.95 DEJUR DUAL-PROFESSIONAL List \$26.95 AWON PRICE-\$17.95

G.E. DW-68 AWON PRICE—\$17.95 List \$26.50 AWON PRICE—\$17.59
Like New WESTON DR Direct Reading
List \$18.00 AWON PRICE—\$12.95 incl case
Case for any of above—\$1.95

AWON FILM

Postage & Insurance must be prepaid "Items marked "FREE" must be requested at time of purchase to be acknowledged

108-M West 29th Street, New York 1, N. Y. LA 4-6376

CAMERA GUIDE

(Continued from page 162)

sure control; continuous run lock; built-in exposure guide.

Last List Price: With 25mm, f/1.9 Ektar, focusing mount, \$179.50, with 25mm, f/2.8 Ektar, fixed focus,

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$99-\$119

Special Identification Points: 1. Name on front plate; 2. Focusing f/1.9 lens; 3. Zoom-type optical finder.

REVERE

Manufacturer: Revere Camera Co., 320 E. 21st St., Chicago 16, Ill.

REVERE 8mm ROLL

Film Capacity: All models take 25 ft. rolls of double-8mm film.

REVERE MODEL 50

Introduced: 1951 (Currently in production)

Lens Mount: Fixed, non-interchangeable.

Viewfinder: Shows field of view for 1/2-in. lens only.

Operating Speeds (f.p.s.): 16, 64 Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 9 ft.



Special Features: Single frame exposure; continuous run lock; footage counter resets automatically; recessed lens; adjustable exposure guide.

Last List Price: With 12.7mm, f/2.8 fixed focus lens, \$49.50

Last Reported Used Selling Price Range in 1956: With f/2.8 fixed focus lens, \$23-\$32

Serial Numbers: Not available.

Special Identification Points: 1. Fixed, recessed lens; 2. Vernier-type footage counter; 3. Adjustable exposure guide.

(Continued on page 166)

DECEN

WHOLESALERS!

108-M West 29th Street New York 1, N. Y. LAckawanna 4-6376

This 1957 dated film is in its original sealed package fully guaranteed by the manufacturer. Day. or Tung. Price includes processing & mounting (35mm).

Size Lots of 3—EA.	Kodachrome	McGregor Color	Vitacolor
8mm x 25' dble. roll	\$2.90	\$2.25	\$2.30
8mm x 25' dble. mag.	3.60	3.50	3.50
16mm x 50' mag	5.40	5.35	5.25
16mm x 100' roll	8.00	5.50	5.35
35mm x 20 exp	2.70	1.85	1.79
35mm x 36 exp	4.00	3 for 6.50	3 for 6.50

COLOR-FILM MFR.	PACKS	UNDER	AWON	LABEL!!	!
LATE 1957 DATE			udes Prod		
All Kodachrome	filters car	be used	with this	film.	
8mm x 25' dble\$2					
35mm x 20 Exp\$1.	.79 ea	3 for	\$5.25	6 for	\$10
1/ /01 1/					

		\$16
16mm x 100' roll ASA 32 \$8.00 ea 38mm dble, or 16mm x 100' roll \$5.50 ea 3		
simil dole. or folim x foo foli \$5.50 ed	101	310

16mm x 400' BULK KODAK REVERSAL MOVIE FILM

ASA	24
Single or	
56	

ASA 50	
ingle or Dou Perforation	
\$4.05	

SUPER XX (ASA 100) Double Perforation \$795

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BULK FILM SPECIAL



1—Brand New Daylight Film Loader 100'—fresh dated negative film film cartridges CONTACT PAPER x 10", SWSM, #1 or #4 \$5.00 Sent Express Collect

ANSCO Color Negative 35mm x 112' Tung. \$5.00

MICROFILE

Perforated OF Unperf.

35mm x 100' .\$1.98 16mm x 100' . 1.75 16mm x 200' . 3.00

FRESH MOVIE FILM 1957 dated, fast, fine grain, panchromatic ASA

50. Prices include new fast processing	
8mm x 25' dble. roll\$1.10'	
BOLEX 8mm x 100' dble. roll	ADILY
16mm x 50' mag 1.75	
16mm x 50' mag, Plus X or XX 2.00	SIX
16mm x 100' Ansco 2.75	GET
16mm x 100'	ONE
16mm x 100' Kodak Plus X 2.95 16mm x 50' roll, Plus X	- CITE
16mm x 50' roll, Plus X 1.50	EXTRA
16mm x 100' Kodak Super XX ASA 100. 3.25	FREE
8mm Mag. B. & W 2.00	

BULK MOVIE Fresh DuPont Stock 8mm x 400' dble. ..\$5.95 8mm x 1600' dble. ..\$22.00

MOVIE-	-QUANTIT	Y DISCO NO PROCES	UNTS-
SIZE	54 Rolls	27 Rolls	15 Rolls
16mm x 25'	\$8.95	\$4.95	\$2.75
16mm x 50°	19.95	10.95	5.95
*16mm x 100'	49.50	29.50	17.95
*Camera spoo	led		

8mm x 16mm x 16mm x	25'	Dble.					\$ 1.00 \$ 1.00	ea. ea.
AES	O E	KTACH	BUNE	EOR	MOVIE	CANC	ACA A	0

AERO EKTACHROME FOR M 8mm x 100'—\$4.75 3 for \$13.25 MOVIE FANS—ASA 40 16mm x 100'—\$4.75 Proc. not Incl.

LAST MINUTE CUT FILM SPECIALS?

Excellent for copy work. 25 shts. per box. 100 shts—\$3.00
4 x 5 Infrared 100 shts—\$3.00
8 x 10 Anseo Process Pan 100 shts—\$3.95
Kedak Film Packs, #520 (2½ x 3½)
Plus X or XX 6 for \$5.50 Kodak Matrix (10 shts) 10x12-98c

16mm	x	50'	roll, Supe	r XX		1.49
16mm	X	50'	Mag., Suj	Proc.	incl.	2.50

MOVIE FANS COLOR COLOR

For those who desire the utmost in color equal to the hest color you have ever used! Price Includes Proc. 8mm x 25 ft. double...\$2.25 ea. 16mm x 100' dble. 701......\$6.75 ea.

SPECIAL PURCHASE! **Brand New** WESTON MASTER II **Exposure Meter**

Reg. \$33.45 SPECIAL . . \$18.95 complete with leather eveready case

* * FREE! * * With every order of \$25 or more — Except Kodachrome— you get a FREE I year subscrip-tion—\$4 value—to Modern Pho-tography or another Camera magazine of our choice.

ANSCO COLOR 1956 DATE

	Daylight	or Tu	ingsten	
35mm :	x 112'		\$1	
35mm				9.95
	E 27%		****	
6 for \$	20 exp. in	metal		for \$10
	50' Tun	-		
	20 exp.			
620 Tu	ngsten		8 fe	r \$2.00

Aero EKTACHROME ASA 40 with 11/2 gallon processing kit
5½ x 20'\$5.95
5¼ x 40'\$7.95
7 x 18'\$5.95
9½ x 40′ \$9.95
35mm x 37½'\$5.95
EXTRA—Free compensating
filter with any of above.
SPECIAL-41/2 gallon Ekta-
chrome processing kit \$3.95

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35mm	X	271/2						-				×		*	*	×		. 4.00

8mm KODAK SUPER XX

• ASA 100 • Proc. Incl.
25' dble. ..\$1.35 100' dble. .\$3.85

Buy 6—One Extra Free

Fresh KODAK **Negative Safety** Kodak Plux X or Super XX, Microfile, Infrared, Ansco Supreme or Background X

35mm x 100 ft. \$7.98 each

FREE: 100' of ASA 24 with

SPECIAL OFFER! Slightly outdated AERO

EKTACHROME ASA32 • 35mm \$4.95

75'	п		A
1/5	ı		0
		20	99

THIS MONTH'S SPECIALS

	5x7 Stainless Steel Trays, Brand New 3 for 120 & 620 Kodacolor, Kodak Proc. Incl 3 for	or \$4
-	and a one Rouncolor, Rounk Flot. Illet3 for	03.50
۰	Telephoto Lens, 8mm., 11/2", 73.5	4.95
	Telephoto Lens, 8mm., 11/2", f3.5 Wide angle lens, 7mm, f3.2, F.F.	11.99
	Cardboard Stereo Mounts 100 for	2 80
•	toog district mounts 200 for	3.50
	1000 for	26.50
	Ansco 35mm Cardboard Mounts 100	1 00
_	1000 for	8.50
	1000 for	
۰	Daylight BULK FILM LOADER & 5 cartridges_	4.98
	All film O.D. unless otherwise stated.	
-		
2	0% DEP. on all C.O.D. PLEASE U. S. F	XC#SS

B&W MOVIE FILM

· Fast-ASA 50			Grain
		processing	
8mm x 25' dble			
*16mm x 100' roi			
8mm Bolex, 100'			
*BUY 6 GE	T ONE E	XTRA	FREE

AERIAL FILM Recent date! In original metal containers.

LINAGRAPH Orth Weston 24, 35mm x 100' 98c ea.
3 15/16" x 61" 5 fer \$1.10
INFRARED (Weston 50) 9½" x 75". 34.00 KODAK XX KODAK TRI-X

9' ---- 4 for \$1 20' ---- 2 for \$1 6' ---- 1.20 ' \$ 5.95 5' --- 7.95 51/4"x20" 2 for \$1 51/2"x56" 3.20 71/2"x62" 5 2.98 91/2"x75" 7.95 91/2"x75" 14.95

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	_							
16mm	x	50'	Mag.	Orig	Kodak	Pack.	Neg	\$1.00
romin	x	100	Roil,	Pods	ik Supe	r AA,	Neg	1./3

8mm x 100' Kodak Super XX, Neg. 1.95

ANSCOCHROME. 1957 DATE ASA 32 Sim x 100' (orig factory pack) 380.00 Sim x 28' (orig factory pack) 380.00 Sim x 20' (orig factory pack) 380.00 Sim x 20' (orig factory pack) 480.00 Sim x 20' or 80.00 Sim x 20' or

-							
	SPECIA	A IA	WON	OFFER!	Realife	Ellen	Special!
	25		44.014	OLL PW!	E) (II I II)	Fillin	Sheeini
	gomm x	100	Kodal	K TRI-X.			\$3.50
	35mm x	100	B&W /	ASA 24			98c
	somm x	100	Kodak	Ortho Pos	t film		41.50
	somm x	100	Ansco	ASA 50 -			\$1.50
	16mm x	400	Positi	ve Film			82 05

35mm Fresh Bulk Negative Safety odak Plus X, Super XX, Kodak Weston 24 or DuP 1. #2 or #3—100'......\$1.98 ea.; 400'......\$7

35mm x 20 Exp. Cart.
Plus X or Super XX
or Tri-X or Infra Red
or Microfile

end 25c for complete 36 page catalog listing all photo equipment at unbeatable prices!

CUT FILM SPECIALS

4 × 8 - original box of 25 sheets 3 boxes for \$3.50 Your choise of 600 M Infra Red BUPONY X-F Pan; ANSCO Tri-S Ortho. 45 EXTACHROME, Type B, 10 shts. per box \$2.25 \$2.10 - original box of 25 sheets - \$2.50 per box. Arrow Pan; AMSCO Super Pan Portrait, Process, Comm. Ortho. 3 for \$6.50.

4 x 5 ------ \$2.00 ea.; 6 for \$ 9 8 x 10 ---- \$3.95 ea.; 3 for \$10

SPECIAL PURCHASE-LIMITED QAUNTITY

8x10—Original Box of 25 sheets—\$1.98 ea.
DuPont Process; Kodak Contrast Process Pan
DuPont Process Pan
Land Contrast Pan
Land Contrast Pan
Land Contrast Pan
Land Commercial Ortho.

Brand New! SPECIAL-WHILE THEY LAST! **Famous-Make Tripod**

3-section, elevator, heavy duty Tripod. \$1195

AEROEKTACHROME HIGH SPEED-ASA 32

CAMOUFLAGE COLOR FILM
of ridiculously low prices!
Used by USAF to detect camouflaged areas.
35mm x 20 exp ...3 for \$1.50 Processing 35mm x 75'\$3.50 Not Incl.

FREE on request with every roll of 35mm color film 1 roll of 20 exp. 35mm B&W film!

McGREGOR

• Fast—ASA 50 • Fine	Grain
Prices include processing 8mm x 25' dble, roll	
*16mm x 100' roil 8mm Bolex, 100' dble.	4.95
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CAMERA GUIDE

(Continued from page 164)

REVERE MODEL 80

Introduced: 1953 (Currently in production)

Lens Mount: D

Viewfinder: Zoom-type with click stops for 9, 13, 25, and 38mm lenses. Operating Speeds (f.p.s.): 12, 16, 24, 32, 48

Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 8 ft.

Special Features: Single frame exposure; continuous run lock; exposure guide.

Last List Price: With 13mm, f/2.5 Wollensak fixed focus lens, \$97.50; with 13mm, f/1.9 Wollensak focusing lens (Model 83), \$122.50

Last Reported Used Selling Price Range in 1956: With f/2.5 Wollensak fixed focus lens, \$43-\$51



Serial Numbers: Not available.

Special Identification Points: 1. Sliding type viewfinder adjustments;

2. Differentiated from Revere 84 by having single lens mount instead of turret.

REVERE MODEL 84

Note: This model is similar to Model 80, but has three-lens turret.

Introduced: 1953 (Currently in production)

Last List Price: With 13mm, f/2.5 Wollensak fixed focus lens, \$122.50; with 13mm, f/1.9 focusing Wollensak lens (Model 89), \$147.50

Last Reported Used Selling Price Range in 1956: With f/1.9 Wollensak focusing lens, \$66-\$85

Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model 80 by having turret.

REVERE MODEL 88

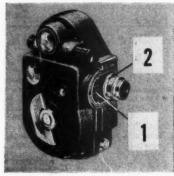
Introduced: 1940 (Currently in production)

Lens Mount: D

Viewfinder: Telescopic, for normal focal length lens only.

Operating Speeds (f.p.s.): 8, 12, 16, 24, 32

Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 5-6 ft.



Special Features: Viewfinder interchangeable to match accessory lenses; exposure guide.

Last List Price: With 13mm, f/2.5 fixed focus lens, \$72.50; with 13mm, f/1.9 focusing lens, \$97.50

Last Reported Used Selling Price Range in 1956: With 1/1.9 focusing lens, \$54-\$61

Special Numbers: Not available.

Special Identification Points: 1. Exposure guide located adjacent to lens mount; 2. Differentiated from Model 99 by having single lens mount instead of turret.

REVERE MODEL 99

Note: This model is similar to Model 88, but has three-lens turret and two viewfinders.

Introduced: 1941 (Currently in production)

Last List Price: With 12.7mm, f/2.8 fixed focus lens, \$99.50; with 13mm, f/1.9 focusing lens, \$122.50

Last Reported Used Selling Price Range in 1956: With f/1.9 focusing lens, \$59-\$72

Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model 88 by having turret.

REVERE MODEL 81 (RANGER)

Introduced: 1949 (Currently in production)

Lens Mount: D

Viewfinder: Optical type, parallax corrected; for 13mm lens with rectangle for tele lens.

Operating Speeds (f.p.s.): 8, 12, 16, 24, 32, 48

Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 5-6 ft.

Special Features: Sprocket forms film loop automatically; built-in exposure guide.

(Continued on page 168)

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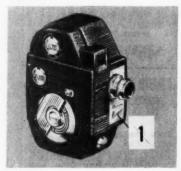
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CAMERA GUIDE

(Continued from page 166)

Last List Price: With 13mm f/2.5 fixed focus lens, \$74; with 13mm, f/1.9 focusing lens, \$99.50

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$37-\$53



Serial Numbers: Not available. Special Identification Points: 1. "Revere Ranger" engraved on front of camera, below lens.

REVERE 8mm MAGAZINE

Film Capacity: All models accept 25-ft. magazines of double-8mm film.

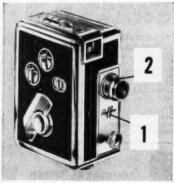
REVERE MODEL 40

Introduced: 1951 (Currently in production)

Lens Mount: D

Viewfinder: Zoom type with adjustable slide click stops; for 9, 13, 25, and 38mm lenses.

Operating Speeds (f.p.s.): 12, 16, 24, 32, 48



Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 8 ft.

Special Features: Single frame exposure; continuous run lock; exposure guide.

Last List Price: With 1/2-in., f/2.5 Wollensak fixed focus lens, \$104.50; with 13mm, f/1.9 Wollensak focusing lens (Model 41), \$129.50

Last Reported Used Selling Price Range in 1956: With f/2.5 Wollensak fixed focus lens, \$49-\$61

(Continued on page 170)

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		1.25	
١	Ser. VII	2.00	2.98
ı	Mar. 5 4		

Plus 1 focuses from 38" to 20" Plus 2 from 20" to 13", Plus 3 from 13" to 10"—for versatility, you will want set of all three Classop Lances, Shpg. Chgs. 1-4—10c.

6-PC. EXTENSION TUBE SET

4-PC. EXTENSION TUBE

PROXISCOPE SR. &

every practical photogra-Permits minute adjustments in a 4½" range on its guared track, with a peleck at any desired poi Shpg. Chg. 35e



The most useful of lens-to-camera closeup accessories. It weighs only 5 oz., has fine leather bellows and a geared track with a positive fock. A sturdy, accurate frame assures proper alignment. An extension range up to 5" is provided, with magnification

is one of the most useful access for owners of Argus, Contax, Cano essa, Edixa, Retina, Signet—just a

GROUNDGLASS FOCUSER

NORTHERN BLVD DEPT MIZ FLUSHING 54 N

CAMERA GUIDE

(Continued from page 168)

Serial Numbers: Not available.

Special Identification Points: 1. "Revere 40" engraved on front of camera, below lens; 2. Differentiated from Model 44 by having single lens mount instead of turret.

REVERE MODEL 44

Note: This model is similar to Model 40 but has three-lens turret.

Introduced: 1951 (Currently in production)

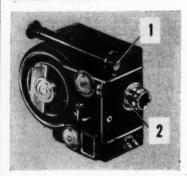
Last List Price: With 13mm, f/2.5 Wollensak fixed focus lens, \$139.50; with 13mm, f/1.9 Wollensak focusing lens (Model 45), \$164.50

Last Reported Used Selling Price Range in 1956: With f/1.9 Wollensak focusing lens, \$89-\$102

Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model 40 by having turret.

REVERE MODEL 70



Introduced: 1947 (Currently in production)

Lens Mount: D

Viewfinder: Telescopic; for 1/2-in. lens only.

Operating Speeds (f.p.s.): 12, 16, 24, 32, 48

Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 8 ft.

Special Features: Single frame exposure; continuous run lock; provision for cable release; ratchet winding key; film rating guide; exposure guide.

Last List Price: With 12.7mm, f/2.8 fixed focus lens, \$109.50; with 13mm, f/1.9 focusing lens, \$134.50

Last Reported Used Selling Price Range in 1956: With f/2.8 fixed focus lens, \$61-\$71

Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model 77 by having external instead of internal viewfinder; 2. Differentiated from Model 60 by having single lens mount instead of turret.

REVERE MODEL 60

Note: This model is the same as Model 70; but has three-lens turret, viewfinder for normal and tele lenses. and parallax correction.

Introduced: 1947 (Currently in production)

Last List Price: With 12.7mm, f/2.8 fixed focus lens, \$132.50; with 13mm, f/1.9 focusing lens, \$157.50

Last Reported Used Selling Price Range in 1956: With f/1.9 focusing lens, \$86-\$99

Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model 70 by having turret.

REVERE MODEL 77

Introduced: 1949 (Currently in production)

Lens Mount: D

Viewfinder: Shows field for tele and normal focal length lenses only.

Operating Speeds (f.p.s.): 12, 16, 24, 32, 48.

Shutter Speed at 16 f.p.s.: 1/35 sec.

Film Run on One Winding: 8 ft. Special Features: Single frame exposure; continuous run lock.

Last List Price: With 12.7mm, f/2.5 fixed focus lens, \$99.50; with 1/2-in.. f/1.9 fixed focus lens, \$106.50; with 13mm, f/1.9 focusing lens, \$124.50

Last Reported Used Selling Price Range in 1956: With f/2.5 fixed focus lens, \$51-\$63



Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model 70 by having internal instead of external viewfinder: 2. Differentiated from Model 67 by having single lens mount instead of turret.

REVERE MODEL 67

Note: This model is similar to Model 77, but has a two-lens turret and provision for cable release.

Introduced: 1949 (Currently in production)

(Continued on page 173)

"ARE YOU TAKING A RISK?"

Did you ever stop to think of how much your first and second camera really cost you? To begin with, had you been advised properly by our "Camera Technologists" as to the best camera suited for your needs, this loss in trade could have been avoided.
Did your camera guarantee include labor and parts? Too many warranties on the market use of labor and parts guarantee for one year, free of charge. Was your camera purchased at the rock bottom price? University's policy of "We will never be undersold by anyone" is your protection.
"There are no guarantees in life except death and taxes." What University offers is to reduce your risk to a minimum. Why not protect your investment? Try us and see for yourself! Price Inquiries are invited.

	New	Our
AIREQUIPT MAGS	\$2.25	\$1.48
Trays for Viewlex Changer	1.50	
Trays for Revere Automatic Proj. Trays for TDC Economy	1.45	.79
Case (holds 30 Airequipt mags)	15.93	6.95
Case (holds 12 Airequipt mags)	9.50	3.95
Case (holds 12 Revere mags) Case (holds 30—6" LaBelle trays).	11.93	7.95
3V TRI-Vision	19.95	15.75
Graffex Stereo c/FL LN	-67.50	46.25

LENSES, all bench tested. We made a special purchase which we are passing on to you; these lenses have high resolving power, excellent color correction and extreme shurpness. Money back guarantee and Brand new.

FOR STANDARD SMM

**	Our
New	Price
6.5mm wide/angle F1.9 foc. Mt49.95	19.97
11/2" F1.9 Tele, foc. Mt	15.95
13/2" F2.5 Revere Tele FM 57.50	13.951
11/2" F1.4 Foc. Mt91.00	20.97
FOR 16mm C mount	
15mm F1.9 w/angle59.95	35.97
13mm F1.5 wide/angle89.50	49.70
3" F1.9 Foc. Mt. Tele49.95	29.95
Write for special prices for Bell &	
Howell and Kodak Camera, Tech-	- 1
nologist report given if requested.	- 1
8mm lens leather case 3.00	.90
16mm lens leather case 4.95	2.23

Airequipt mags

1.48 same for List 2.25 our price

Interchangeable Lenses Couple to Rangefind The All New 1956 German Important

UTURA SUPER SIII

Wind Features



MOHAWK MIDGETAPE POCKET RECORDER



Battery operated 3%" in width, 8½" in length, lightweight. I hour recording. A must for business execs., sales managers, reporters, radio, TV, on-the-spot interviews, insurance in-

List 249.50 5 149.70 vestigators, etc. incl. bat. mike, earphone & tape. Send for free Brochure.

NEW! MANSFIELD PORTABLE DELUXE FILM EDITOR



Our Price NEW 8mm Editor—Complete w/case List \$45.00 #950 \$25.49 16mm Editor—Complete w/case List \$49.50 \$32.50

8mm Editor-Complete but No Case. Special, no Focus Knob Same for 16mm \$21.95 \$19.97

NEW C. O. C. PROJECTION VIEWER ONLY

\$23.50

Table Model for 2x2 Slides Self contained projection-viewing syste 6x6" viewing area, opalescent screen be into case Smooth operating automatic changer Capacity 36 paper mounted 2x2 slides Focusing 73.5 projection lens Double condenser system, even Illumination

Focusing 13.0 payses.

Double condenser system, even illumination

Metal case for maximum protection and portability

110 Volts-AC DC 50 Watt lan Operates on 110 Volts-ACDC 50 Watt lam Regular \$34.50

4 Light Bar + Case

• Folding Light Bar • Case holds Bar -Bulbs • Bulbs \$1.35 each Extra 7.95

SUPER BUYS 30%-40% OFF

Everything listed below is USED but in e cellent condition, except those items mark

New	Our
35MM CAMERAS	
ARGUS C3 w/case/FL 69.50	34.00
Argus C4 w/c/fl 99.50	42.95
Argus C44 w/c/fl117.00	
Bolsey Jub w/c/fl 79.50 Canon 1Vs2 F1.8 new 284.00	48.00
Canon V F1.8	169.50
Kodak Pony 135 Kit 49.65	29.95
Retina 11c F2.8139.50	74.50
Retina IIIc F2 190.00	112.50
Signet F3.5 75.00 New Signet 40 w/fl 65.00 Leica 3c F2 285.00	38.50
New Signet 40 w fl 65.00	
Leica 3c F2285.00	139.50
Leica 11F Body	74.50
Nikon S2 F2Nik299.00	
Nikon S2 F1.4 Nik345.00 Ricoh 35 W/c/fl59.95	39.95
Eva E3 5 Tage 100 50	69.50
Exa F3.5 Tess109.50 Exakta VX 1957 ml F2a396.00	189.50
	27.80
Voight Wites E2 (met 150.50)	79.50
Vitess F3.5 Skopar 99.50 Futura Super (disct) F2 177.50	57.50
Futura Super (disct) F2177.50	74.50
Contailex 11	107.00
Contaflex 1169.50	87.00
Retina 11a F2164.10	74.50
Robot Royal f2.8 new255.00	129.00
Robot Royal F1.9 new299.50	169.50
Tenack F2 Tanar new295.00 Certo Dollina F2.8 T119.50	39.90
Contessa F2.8 RF169.50	65.00
Condor F3.5 RF 89.50	34.50
Argus A2	9.50
Praktica F2.9 victar 99.50 Exakta F2 Xenon 290.00	29.95
Exakta F2 Xenon290.00	89.00
Exakta F2 Biotar 348.00 Weltina 3.5 ELMAR RF 125.00	109.50
Weltina 3.5 ELMAR RF 125.00	39.90
Hoca F3.5 RF 89.50	46.52
Realist F2.8 new 68.50	44.50
Diax F2 Xenon159.50	99.50
EdinexIII F2.9 69.50 Contax 11a 298.00 Contax 111a f3.5 Tess 277.00	179.55
Contax 115 49 8 7000	159 50
	48.50
Pony 828 31.50	21.00
Pony 828 31.50 Bolsey B F3.2 RF 57.50	19.95
Edixa C F3.5 RF 49.95 828 Kodak Ban F4.5 57.50 Leica M3 F2 Summic 447.50	34.67
828 Kodak Ban F4.5 57.50	18.00
Leica M3 F2 Summic447.50	
Leica M3 F2 used447.50	284.50
Praktica 2.8 pre/c/fl179.50	69.95
Retina 1 3.5 Xenar 69.50 Alpa 7 1.9 aut xen 429.00	
Aipa / 1.9 aut xen929.00	274.50

REFLEX CAMERAS &

ROLL TYPES	
De Jur F3.5 99.50	49.50
Exakta 66	179.50
Graffex 22 (3.5 93.00)	45.00
Hasselblad 2.8 379.50	190.00
Minolta Autocord 3.5 99.50	54.00
Kodak Reflex 11 f3.5 155.00	59.00
Ricohflex 3.5 auto 51.00	24.50
Polloifley 3.5	75.00
Rollei 2.80 latest291.50	162.00
Rollei 3.5 tes latest232.50	119.50
Rollei 3.5 xen latest217.50	109.50
Rolleicord 3.5 xenar V135.00	72.00
Argus Reflex 3.5 82.50	33.50
Kodak Duo 620 RF 3.5125.00	56.95
Baby Rollei (127) 3.5 198.00	59.95
Leica M3 body old style 288.00	189.00
Exa f3.5 Meritar 89.00	49.00
Bolsey C rf 3.5 refl 99.00	
Soliger sem-aut 3.5 69.50	
Ikonta 111 3.5 Tess RF 106.50	59.00

PRESS CAMERAS & MINIATURE TYPE

Busch Press 21/4x31/4 4.5 ... 198.00 49.9

New	Our Price
Recommar 9x12 F4.5139.00	38.50
Polaroid 700125.00	
Polaroid 95A 89.75	
Mamya 16 59.95	36.00
4x5 Crown latest w/3.5	
xenar/comp/fl sync RF267.50	148.00
SMM MOVIE CAMERAS	

SMM MOTIE CAMENAS	
BAN 220 f2.5\$49.95	\$23.00
SEN 134v f2.5 89.95	39.00
BEN 134TA f1.9 Tur159.95	74.00
B&N 1728 f1.9 Mag164.95	81.00
66H 172A f1.9 Mag Tur199.95	
B&H 252 f2.3 Monterey 59.95	
Kodak Brownie f2.7 37.50	
Kodak Brownie f1.9 46.75	22.00
Cine Kodak Reliant f2.7 84.50	42.00
Cine Kodak Magazine f1.9 149.50	69.00
De Jur Citation f2.5 77.50	37.00
De Jur Embassy f2.5 Mag 106.95	49.00
De Jur Fadematic f1.9 149.50	69.00
Keystone k-29 Pathfinder f2.8 49.95	27.00
Keystone k-30 Capri f2.8 54.95	
Keystone k-32 Olympic f2.5. 79.95	39.00
Keystone k-35 Olympic Tur	
f1.9119.95	58.00
Keystone Bel Air f2.5 Mag 89.50	45.00
Keystone Riviera f1.9 Mag	
Tur139.95	
Revere 50 f2.8 49.50	
Revere 55 f2.8 73.50	
Revere 88 f2.5 74.00	29.00

TAMM MOVIE CAMERAS

a	TOMM MOTIL ONMENNS	
3.	Wollensak Mag. Mod 91 f1.9_187.50	89.00
	f1.9, 7" f2.5 WA, 3" f2.8287.50	141.00
	E.K. Royal Mag f1.9 Ektar179.50	79.00
	Keystone Criterion A9 f2.5 114.50	55.00
0		82.50
2	Mayetone Evecutive MS1 mag	
0	f2.5139.50	62.25
ă	B&H 200 auto load f2.5 174.95	82.00
õ	BAN 200T (2.5 219.95	108.00
Š	B&H 200TA f2.5 Comat264.95 Bolex H16 Leader f1.9	131.00
0	Boley H16 Leader (1.9	
ŏ	Pathe Super 16 Tur c450.00	228.00
_	Keystone Evecutive MSS man	
0	f1.9189.50	91.00
ŏ	f1.9 189.50 Revere Mod C26 f2.7 FF 187.50 Revere Mod 36 f2.5 159.50 Revere Mod 38 f2.5 159.50	92.00
0	Revere Mod 36 f2.5 150.50	79.00
o	Revere Mod 38 (2.6 100.50	93.75
퀽	Revere Mod 101 spool f2.5 139.50	67.75
		68.50
ŏ	Revere 103 3 lens turret252.50	68.50

0		
9	BMM & 16MM PROJECTOI Ampro Futurist 750W Case149.05 Keystone k100M Magnascope 500W cc	ts.
ž		
ŏ	Ampro Futurist 750W Case 149.95	79.50
ŏ	Keystone k100M Magnascope	
ŏ	500W cc 99.95	43.50
ñ	Keystone 109M Regal Mag.	
ŏ	750W Spl. CC169.50	83.25
ŏ	Revere 850 S00W cc124.50	57.00
ŏ	Revere 90 500 or 750W cc159.50	63.00
ō	Revere 777 500W cc 127.50 B&H 122 Regent cc 500W W/reverse 170.95 B&H 253 Monterey cc 500W 99.95	78.25
ō	B&H 122 Regent cc 500W	
5	w/reverse170.95	88.50
ō	B&H 253 Monterey cc 500W_ 99.95	43.25
0	Kodak Brownie 300W cc 62.00	37.00
0	Kodak Showtime 8 500W 115.00	32.00
2	De Jur 500 500W 69.95	34.00
0	De Jur 750 750W cc166.00 De Jur 1000 1000W cc181.00 B&H Diplomat 173 1000W cc299.95	82.75
0	De Jur 1000 1000W cc 181.00	89.00
5	B&H Diplomat 173 1000W	
0	cc209.95	144.50
		98.50
o	Bolex G8-16 Combination	
o	750W	
5	750W	
7	750W cc	83.00
0	Rodak Royal 750W CC275.00	135.50
_	mevere 48 /30W CC182.50	31.00

16MM SOUND PROJECTORS

Ö	TOMM SOUTH TROUBLETO	
00	Ampro DeLuxe Stylist 1000W case	392.00
000	B&H 202C 1000W Magnetic case699.00	440.00
0000	1000W case375.00	242.00

NEW 1956 BLOWER COOLED PROJECTORS-35MM

98		_
00	SVE SKYLINE 300 F3.5, case, Auto/C, N867.50	\$36.95
50	300, case, Auto/C, N 87.50	
	SVE SKYLINE SOO DELUXE, case, Auto/C, N108.50 AMERICAN OPTICAL 300W	51.97
	w/case & Auto/C, N 59.95	37.97
50	AUTO/C, and BRAND NEW. 66.50	41.97

AO 300 w/aute chgr & case 74.50 La Belle Show 300 LN 59.95 Direct 300 La Belle 69.95 La Belle 25 LN 94.95 La Belle 25 LN 25.95 La Belle 57 mags ea. 2.95 SKAN 222 300, case /chgr 59.95 48.75 41.97 49.72 66.35 99.65

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HOLLYWOOD Jr. 2 Sect.		
w/pan head	17.45	9.50
STAR D CONQUEST		
(elevating type)	19.99	13.99
STAR D COMET		
(elevating type)	22.50	14.95
Star D "17" 2 Sect Movie	13.95	8.95
DELUXE TRIPOD CASE	5.95	1.05
QUICK SET ELEVATOR		
CHAMP	34.00	18.95
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WIDE ANGLE LENSES

28		Angenieux	120.00
		Angenieux Retrofocus_	
		Zeiss Tessar	
		Meyer helioplan	
40mm	13.5	Steinheil Cassaron	49.50

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		PER LIGITA PERIODS
85mm	12.8	Steinheil Culminar 65.00
90mm	f1.8	Angenieux149.00
90mm	f2.5	Angenieux 84.50
100mm	12.8	Meyer Trioplan 75.00
135mm	f2.5	Angenieux169.50
135mm	f3.5	Angenieux 75.50
135mm	12.8	Steinheil Quinar Pre-set 149.50
135mm	14	Zeiss Triotar 75.00
150mm	15.5	Meyer Tele-Megor 55.95
		Mover Tale-Mount 82 05

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	List	Sale
Yankee Lordomat 20 Tank		7.30
Yankee 4x5 Utility Tank	2,95	
Yankee 4x5 Agitank cut film_	8.95	6.98
Yankee Safe lite w/3	8.93	0.00
Eillere	4.95	3.89
Filters Airequipt 4 Way Fixed Easel_	8.07	5.65
Airequipt Dialmaster Easel	0.01	0.00
11x14	17.06	11.95
Airequipt Photocrat 4x5	11.00	44.00
Printer	14.34	9.95
Airequipt Jr. Printer 4x5	10.77	7.55
Brumberger 5x7 Adj Metal	20111	
	22.00	14.95
Brumberger 5x7 Safe Lite OA	5.95	3.99
Brumberger 8x10 Paper Safe Brumberger 11x14 Paper Safe	10.95	7.30
Brumberger 11x14 Paper Safe	19.95	13.39
Fedco Focus Rite Enlarging		
Aid	2.25	1.75
Fedco No. 100 Dryer 111/2		
×15	9.95	6.75
Gra Lab #168 Luminous		
Timer	22.95	16.10
Premier A2 Roto Dryer		
24x28"	49.95	33.98
12x29"	27.50	18.95
12x29" Premier 12 1/2" Trimmer w/Guide		
w/Guide	8.90	6.25
Premier 12 1/2" Trimmer W/Guide Premier 15" Trimmer W/Guide		
w/Quide Premier 12" Deckled Edge	17.00	11.95
Trimmer	0.15	6.69
Statiomastee 3// Brush	9.15	3.50
Staticmaster 1" Brush Spot-O-Matic Enlarging Meter	12.50	8.75
Nikor 35mm Tank single reel	6.70	5.19
Niker 130 430 Tank	7.65	6.09
Nikor 120-620 Tank Nikor 20 Exp. 35mm wide	1.00	0.00
space reel	3.95	3.19
Nikor 36 Exp. 35mm wide	0.00	
space reel	3.95	3.19
35mm reels.	10.70	8.50
Kodak Timer		
Minutes & Seconds	9.75	7.50
Kodak 35mm Day Load Tank.	9.95	7.49
Dev. Tank_ Kodak Automatic Tray Siphon	28.50	20.95
Kodak Automatic Tray Siphon	4.95	3.79
bun May 11x14 Metal Adj.		
Sun Ray 8x10 Metal Adi.	7.75	8.49
Precise 11x14 Metal Adj. Easel	5.50	3.95
Precise 11x14 metal Adj. Kasel	6.75	4.95
Carr Cut Film Hangers 4x5	1.98	.98
Foot Switch	4.95	2.69
Foot Switch	4.89	4.60
Processing Kit	23.75	19.50
Arkay 16x20 Lordmaster	20.10	09.30
Print Washer	80 50	66.95
Frint washed	00.00	

MODEL 2700 Superpod

Geared for quick action raising and lowering Extra 90 Degree tilt on panhead Ball Level on tripod Ratchet to prevent camera from fating marks for vertical pictures
Adjustable camera screw
\$11.97 Case list 5.95
Special 1.95

University Camera stores

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REMEMBER YOU SAW IT IN MODERN

WILLOUGHBY SPEC

And remember - When Willoughbys Advertises It, Willoughbys Has It! We don't try to switch you to "something else"...we are opposed to "come-ons"...we try to keep sufficient stocks on hand at all times to take

care of customer needs. You are a customer who comes to us in good faith and we try to keep that faith. Buy your Christmas photo gifts at the World's Largest Camera Store, and see what a difference responsibility makes.

SALE! The Most Adaptable Tripod on the Market! UNIVERSAL TRIPOD

COMBINATION SET



For Table and Clamping Applications Thousands Sold Regularly at 18.95

NOW **8**95

While They Last!

Can be used indoors and outdoors! Attached to a table or a tree! Placed on the floor or ground! Can be used for close-up work, copying, enlarging, nature studies, etc.! Consists of four interchangeable legs, clamping tubes, adjustable clamps and ball and socket head. Compact case.







Less Than 1/2-Pricel Brand New!



List 29.95 12.95

10½ x 3% x 7½ inches. Contour-curved to rest lightly on the hip. Non-slip shoulder pad and adjustable shoulder strap. Top-grain cow-hide in beautiful Colorado tan color.

2x2 METAL SLIDE FILE



Reg. 2.95 1.69

Holds 150 glass or 300 cardboard slides. Buy now . . . price goes up after they're gone.

Now in Stockl Complete Line of **BAUSCH & LOMB BINOCULARS**

Wide selection to choose from. There's a B & L Binocular for every purpose.

Famous FED-FLASH



Camera Outfit 11.35 Now 4.95

As anyone who owns one will tell you, "it's a terrific little camera." Complete with flashgun. 8 pictures on #127 film.

Brand New Purchasel 8 mm MOVIE CAMERA LENSES

at way below wholesale import costl

11/2" f/1.9 Telephoto Lens for Most 2 mm Movie Cameras......Sale Priced 17.95 Wide Angle f/2.8 Lens for Most 8mm Movie CamerasSale Priced 14.95

Now you can increase the scope of your movie camera, and save many dollars.

New MINOX B-C Flashgun 2095

Hardly Bigger Than The Z3

Including B-C Flash and Fan Reflector, less Battery

Weighs but 3 ounces—fits directly on your MINOX camera. The perfect gift for the MINOX owner. Come in and let us demonstrate it.

MINOX Mercury B-C Flash Battery (lasts 2 yrs.) 1.95 High Efficiency Color Reflector (optional) 2.50

GRAMERCY 4-LITE

Folding Indoor Light Reg. 17.95 8.95 with Case

Price does not include bulbs. 24-gauge steel. UL-approved cord. Luggage type case.



DEADED CODERNO For Slides

DEADED	JUL	PPM & WoA	ies
	Size	Reg.	Sale
	30x40	14.95	8.97
	40x40	16.95	10.17
	37x50		11.85
	50x50	22.50	13.50
1 -		1 11 /	

Beautiful, durable surface, Ad-justable metal tripod legs. Metal carrying case

Brand New! At 1/2-Price!



Gorgeous All-Leather GADGET BAG

Reg. 10.95 5.45

Genuine cowhide leather, in a stunning deep buff color. Zipper top. Measures $10 \times 74 \times 444$ inches. Adjustable shoulder straps, and two tripod straps at bottom of bag. (Model Special BJ-13.)

MANSFIELD IR. SPLICER



List 2.95 1.98

For 8mm and 16mm. With scraper, blade, bottle of cement.

WILLOW-WEAVE PHOTO ALBUMS



5 x 7 ... 1.85 8 x 10 ... 2.75 11 x 14 ... 4.25

Attractive tweed-effect covers in red or green. 36 su-perior quality, spiral bound leaves.

Famous Make 5 x 7 CONTACT PRINTER

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Instantaneous on-off switch. Opal glass. With one red 7½ watt bulb.

SVE Skyline AUTOMATIC 2x2 SLIDE PROIECTOR



Complete with AIREQUIPT **Automatic Slide Changer** and DeLuxe Carrying Case

List 67.45 38.50

BRAND NEW! LATEST MODEL!

Brilliant 300-watt illumination
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 5-inch Color-Corrected f/4.5 Lens
 Positive-position tilling device
 Beautiful Sierra-Tan color finish

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CAMERA GUIDE

(Continued from page 170)

Last List Price: With 12.7mm, f/2.8 fixed focus lens, \$119.50; with 13mm, f/1.9 focusing lens, \$144.50

Last Reported Used Selling Price Range in 1956: With f/1.9 focusing lens, \$79-\$88

Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model 77 by hav-· ing turret.

REVERE MODEL B61

Introduced: 1950 (Currently in pro-

Lens Mount: D

Viewfinder: Zoom type, with adjustable eyepiece and click stops; for 9, 13, 25, and 38mm lenses.

Operating Speeds (f.p.s.): 12, 16, 24, 32, 48,



Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 9 ft.

Special Features: Single frame exposure; continuous run lock; exposure

Last List Price: With 13mm, f/2.5 Wollensak fixed focus lens, \$117.50; with 1/2-in., f/1.9 Wollensak focusing lens (Model B62), \$142.50

Last Reported Used Selling Price Range in 1956: With f/1.9 Wollensak focusing lens, \$79-\$92

Serial Numbers: Not available.

Special Identification Points: 1. Viewfinder eyepiece is adjustable to match accessory lenses; 2. Differentiated from Model B63 by having single lens mount instead of turret.

REVERE MODEL B63

Note: This is the same as Model B61, but has a three-lens turret.

Introduced: 1950 (Currently in production)

Last List Price: With 13mm, f/2.5 Wollensak fixed focus lens, \$152.50; with 1/2-in., f/1.9 focusing lens (Model B64), \$177.50

Last Reported Used Selling Price Range in 1956: With f/1.9 focusing lens, \$101-\$119

Serial Numbers: Not available. (Continued on page 174)

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CAMERA GUIDE

(Continued from page 173)

Special Identification Points: 1. Differentiated from Model B61 by having turret.

REVERE 16mm ROLL

Film Capacity: All models take up to 100-ft. rolls of double or single perforated 16mm film.

REVERE MODEL C101

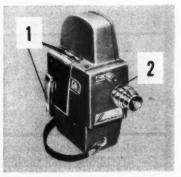
Introduced: 1956 (Currently in production)

Lens Mount: C

Viewfinder: Positive optical type; front objective finder is interchangeable for use with other focal length lenses.

Operating Speeds (f.p.s.): 16, 24, 32, 48, 64.

Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 27 ft.



Special Features: Single frame exposure: continuous run lock; provision for cable release; crank wind (in current version); exposure guide; parallax correction.

Last List Price: With 25mm, f/2.5 Wollensak fixed focus lens, \$139.50: with 1-in., f/1.9 Wollensak focusing lens (Model C102), \$164; with 1-in., f/1.5 Wollensak focusing lens (Model C104), \$222.50 Last Reported Used Selling Price

Range in 1956: Not available. Serial Numbers: Not available.

Special Identification Points: 1. Early version has footage and f.p.s. dials on right side of main camera body and has key wind; current version has dials on top of main camera body and has crank wind; 2. Differentiated from Model C103 by having single lens mount instead of turret.

REVERE MODEL C103

Note: This is the same as Model C101, but has a three-lens turret.

Introduced: 1956 (Currently in production)

Last List Price: With 25mm, f/2.5 (Continued on page 176)

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	Ortho	(ASA	64)	100'				4.50
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Haloid Variable Contrast 10" x 10" Enlarging Paper S. W. Glossy-1956 Date

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100	sheets	4.25
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10	×	10	SW	SM	***************************************		125	sh.	4.25 3.75 3.50
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8 x 10	SWGL	#1, 2, 3	100 sh.	3.95
8 x 10	DWSM	#2, 3	100 sh.	4.25
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8 x 10	Resisto Rapid	#1, 2	100 sh.	3.50
11 x 14	SWGL	#2, 4	50 sh.	3.25
11 x 14	SWSM	#1,4	100 sh.	5.50
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5 x 7	SWGL	#4	200 sh.	3.75
5 x 7	Auto Pos.		250 sh.	1.50
8 x 10	SWSM	#1, 2, 3, 4	200 sh.	2.50
8 x 10	DWSM	#0, 1, 2	100 sh.	2.50
8 x 10	Auto Pos.		250 sh.	2.50
8 x 101/2	Ad Type		250 sh.	3.50
81/2 X 11	Reflex Copy		200 sh.	2.95
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reloads	20 exp.	
KODACHROME original roll		1.51
	om your transparencies full this tand mailing bags. Money	

CAMERA GUIDE

(Continued from page 174)

Wollensak fixed focus lens, \$169.50; with 1-in., f/1.9 Wollensak focusing lens (Model C105), \$194.50; with 1-in., f/1.5 Wollensak focusing lens (Model C106), \$252.50

Last Reported Used Selling Price Range in 1956: Not available.

Serial Numbers: Not available.

Special Identification Points: 1. Early version has footage and f.p.s. dials on right side of main camera body and has key wind; current version has dials on top of main camera body and has crank wind; 2. Differentiated from Model C101 by having turret.

REVERE 16mm MAGAZINE

Film Capacity: All models take 50-ft. magazines of double perforated 16mm film.

REVERE MODEL 16



Introduced: 1948 (Currently in pro-

Lens Mount: C

Viewfinder: Telescopic; adjustable for 17mm to 4-in. lenses.

Operating Speeds (f.p.s.): 12, 16, 24, 32, 48

Shutter Speed at 16 f.p.s.: 1/40 sec. Film Run on One Winding: 10 ft.

Special Features: Single frame exposure; provision for cable release; continuous run lock; ratchet winding key; film rating guide; exposure guide.

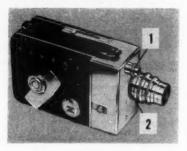
Last List Price: With 1-in., f/2.5 Wollensak fixed focus lens, \$157.50; with 1-in., f/1.9 Wollensak focusing lens, \$182.50

Last Reported Used Selling Price Range in 1956: With f/1.9 Wollensak focusing lens, \$78-\$99.

Serial Numbers: Not available.

Special Identification Points: 1. "Revere Magazine 16" engraved on right side of camera; 2. Differentiated from later Model C36 by having external instead of internal viewfinder; 3. Differentiated from Model 26 by having single lens mount instead of turret.

REVERE MODEL 26



Note: This is the same as the Model 16, but has a three-lens turret. Introduced: 1948 (Currently in pro-

duction)

Last List Price: With 25mm, f/2.7 fixed focus lens, \$187.50; with 1-in.. f/1.9 focusing lens, \$212.50

Last Reported Used Selling Price Range in 1956: With f/1.9 focusing lens, \$127-\$149

Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model 16 by having turret; 2. Differentiated from later Model C38 by having external instead of internal viewfinder.

REVERE MODEL C36

Introduced: 1955 (Currently in production)

Lens Mount: C

Viewfinder: Positive optical type; front objective is interchangeable for use with other focal length lenses.

ACC

14.

10.

5.

2.5

9.8

22.5

49.5

27.5

17.6

9.1

8.9

4.9

12.9

9.7

9.90

4.03

7.75

5.50

6.78

Operating Speeds (f.p.s.): 12, 16, 24, 32, 48.

Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 14 ft.

Special Features: Single frame exposure; continuous run lock; ratchet wind; adjustable exposure guide; film plane reference mark; parallax correction.

Last List Price: With 25mm, f/2.5 Wollensak fixed focus lens, \$159.50; with 1-in., f/1.9 Wollensak focusing lens (Model C37), \$184.50; with 1-in., f/1.5 Wollensak focusing lens (Model C34), \$222.50

Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model 16 by having internal instead of external viewfinder; 2. Differentiated from Model C38 by having single lens mount instead of turret.

REVERE MODEL C38

Note: This model is the same as Model C36, but has a three-lens turret. (Continued on page 178)

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Viewer Lists for \$9.95. You get this \$3.95 SLIDE FILE CARRYING CASE—FREE! En-larges color slides 9 times. Case holds 100 Slides and Viewer. UNBREAKABLE. ----

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D Mount for all cameras ex-4

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Elevator Tripod

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16mm SOUND-ON-FILM CAMERAS



CLEAN · WHITE · SMOOTH COLUMBIAN ENAMELING & STAMPING CO. Inc. .

CAMERA GUIDE

(Continued from page 176)

Viewfinder: Positive optical type; turret accepts three interchangeable positive optical viewfinder objectives to show the field of view for the different focal length lenses used.

Introduced: 1955 (Currently in production)

Last List Price: With 25mm, f/2.5 Wollensak fixed focus lens, \$199.50: with 1-in., f/1.9 Wollensak focusing lens (Model C39), \$224.50; with 1-in., f/1.5 Wollensak focusing lens (Model C35), \$265.50

Last Reported Used Selling Price Range in 1956: Not available. Serial Numbers: Not available.

Special Identification Points: 1. Differentiated from Model C36 by hav-

BELL & HOWELL

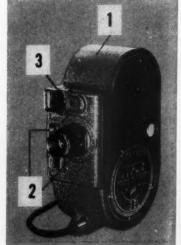
Manufacturer: Bell & Howell Co., 7100 McCormick Rd., Chicago 45, 111.

BELL & HOWELL 8mm ROLL

Film Capacity: All models listed take 25-ft. rolls of double-8mm film.

Lens Mount: All models listed have special Bell & Howell mounts. Early versions are squeeze bayonet type; later ones are threaded and lenses interchange with those on Bell & Howell 8mm magazine cam-

BELL & HOWELL SPORTSTER. MODEL 134-S



Note: Camera illustrated is an early version, Model 134-A, carrying the name Filmo Double Run Eight on the exposure calculator. It is mechanically similar to the 134-S.

(Continued on page 180)

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lete in metal case with four 375-W L. Has camera platform, handle, cord. into case without removing lamps.

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8mm	200	ft.									.4	sets 2.29
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16mm	400	ft.						*			.4	sets 3.45

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Grey hammerloid finish. Each chest has
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8mm	200	ft.						reg. .3.25	Sale 2.44
8mm	300	ft.						.3.95	2.97
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16mm	400	ft.						.4.95	3.71
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Geared, crank-operated ele-vator. Sturdy, 3-section tubular legs. Extends nearly 6 feet. With Quick-set Panhead.

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- Extends over 6 feet 3-section, sturdy legs, rubber-tipped Telescopes to only 2 feet
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300 for 5.40 1000 for 17.00 100 for 2.79 300 for 7.25 300 for 7.25 SPECIAL 27.50



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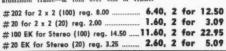
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7. 50 We Got Married
1. School Days
8. First Anniversary
9. Prot Anniv

15. Our New York
Trip
16. Canada Beckons
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Europe
18. In Our Garden
19. The Old South
20. Let's Get
Started

AUTOMATIC 2 x 2 PROJECTION VIEWER

Portable, lightweigh self-contained, all opti-enclosed in all-steel cas-Hooded cover allows showing in bright room. Focusing lever on side. Holds 36 slides that change with a flick of the lever.

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· COUPLED RANGEFINDER • f3.2 lens • flash synchronized

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(and other Bayonet-mount Reflexes)
Lenses fit right on. Coated, color-corected. Tele magnifes over 1½ time w.a. nearly doubles field.

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Easy to use. Titles made with plastic letters that stick like magic—no pins . . no glue. Guar wear out.

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430 2' letters & characters in 3
410 2' letters & characters in 3
610 2' letter-sorting tray.

5 interchangeable 12"x18" backgi
—White, Green, Blue,
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Offers automatic steri

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TOSHOP 134 WEST 32nd STREET New York 1, N. Y. - LO. 3-1973

X

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CAMERA GUIDE

(Continued from page 178)

Introduced: 1936 Discontinued: 1951 Viewfinder: Negative type, enclosed, with hinged masks for 1 and 1½ in. lenses.

Operating Speeds (f.p.s.): 16, 24, 32, 48, 64

Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 5 ft.

Special Features: Single frame exposure control; continuous run lock.

Last List Price: With ½ in., f/2.5 Bell & Howell lens, \$99.75

Last Reported Used Selling Price Range in 1956: Not available Serial Numbers: Not available

Special Identification Points: 1. Dark gray finish; 2. Bayonet lens mount and release buttons; 3. Hinged viewfinder masks; 4. Range of operating speeds is main point of difference as compared to Companion line.

BELL & HOWELL SPORTSTER, MODEL 134-V

Introduced: 1951 (Currently in production) This camera is the same as the Model 134-S except for finish, lens mount, and viewfinder (see identification points).

Last List Price: With ½ in. Bell & Howell Comat lens, \$99.95

Last Reported Used Selling Price Range in 1956: With f/2.5 Comat, \$47-\$68

Special Identification Points: 1. Fawn tan finish; 2. Threaded lens mount;
 3. Mask for 1½ in. lens is etched in black on viewfinder lens; no external masks.

BELL & HOWELL COMPANION, MODEL 134-U

Introduced: 1936 Discontinued: 1951 This camera is similar to the Model 134-S above, except for viewfinder, operating speeds, and finish.

Viewfinder: Negative type, with provision for adding external masks for 1 and 1½ in. lenses similar to those supplied on Model 134-S.

Operating Speeds (f.p.s.): 8, 16, 24, 32 Last List Price: With ½ in. Bell & Howell lens, \$89.95

Last Reported Used Selling Price Range in 1956: Not available

Serial Numbers: Not available

Special Identification Points: 1. Dark brown finish; 2. Bayonet lens mount; 3. Range of operating speeds is main point of difference as compared to Sportster line.

BELL & HOWELL COMPANION, MODEL 134-W

Introduced: 1951 (Currently in production) This camera is similar to the Model 134-U, above, except for lens mount, finish, and viewfinder (see identification points).

Last List Price: With ½ in., f/2.5 Bell & Howell Comat lens, \$89.95

Last Reported Used Selling Price Range in 1956: With fixed focus f/2.5 Comat, \$41-\$58

Serial Numbers: Not available

Special Identification Points: 1. Fawn tan finish; 2. Threaded lens mount;
 3. Mask for 1½ in. lens is etched in black on viewfinder lens; no external masks.

BELL & HOWELL TRI-LENS, MODEL 134-J

Introduced: 1938 Discontinued: 1951
This camera is mechanically similar to the Sportster line, but has a 3-lens turret and different viewfinder.

Viewfinder: Positive type, with separate objectives to match field of 1/4 in. to 2 in. lenses.

Operating Speeds (f.p.s.): 16, 24, 32, 48, 64

Shutter Speed at 16 f.p.s.: 1/35 sec. Film Run on One Winding: 5 ft. (Continued on page 182)



All prices include excise tax: Postage and insurance MUST be prepaid, even when no shipping weight is stated — overpayment will be credited in full Everything listed is brand-new lunless otherwise stated and fully guaranteed against defects 25% deposit on C O D.

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750 watt. Fit all standard projectors. List \$4.50 each. 3 for \$4.25





Coated. For hispeed, color, existing light. Cost Gov't \$485. Adapts to most

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HollyCam gives you HIGHEST PRICES on your old equipment—trade it in on the equipment you want, with LOWEST PRICES at HollyCam! Sell HIGH, buy LOW! Convert unwanted equipment into a trade allowance on some thing you really need! Write today for trade-in quotations! GUN CAMERAS WANTED.

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2x2 Lantern Slides, Med.#2 36 31/4x4 Lantern Slides, Med.#2 36	\$.89
4x5 Outdoor Ektachrome 25 Sheets	2/9.10
5x7 Ektacolor, indoor type 10 Sheets 8x10 Ansco Color Daylight 6 Sheets	3.50
20x24 Ansco Commercial 24 Sheets	29.50

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WELLINE LIPIMS	
51/4"x 40' Aero Ektachrome	\$ 4.50
51/2"x 56' Super XX	1.95
7" x 18' Aero Ektachrome	6.75
91/2"x 75' Aero Ektachrome	24.75
91/2"x 75' Super XX, Triple S Pan	4.45
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91/2"x390" Super XX, Triple S Pan	27.75

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200' EK Linagraph Shellburst	Each	1.00	
400' Ansco Color, Indoor	Each	48.95	
Fresh Tri-X, random lengths	Ft.	21/26	
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Graphex or EK #1 shutter coupled with #3 selencid, mounted on "C" board. All brand new. Gov't cost

\$16.95

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8x10	SWG1, DW SM, 1	144	2.95
20×24 35mm × 100'	SW SM, 4 LWSM, 3	100	7.95
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CONTACT PAPER

SIZE	TYPE	QUAN.	PRICE
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23/4×41/2	SWG, 4	144	1.00
31/4×43/2	SWG, 3	500	1.25
31/2×53/4	SWG, 4	144	1.00
31/4×53/4	SWG, 4	500	1.90
4x6	DWG, 3	500 144	1.00
71/2×71/2	Aero, 1	144	1.00
71/2×71/2	SWG, 0	144	1.00
8×10	SWG, 2-4	100	2.95
8x10	SWSM, 4	100	2.05
8×10	SWSM, 4 SWSM, 3 SWSM, 1	144	2.75
8×101/2		144	1.25
8×101/2	LWFSM, 3-4	100	1.50
8×101/2	LWFSM, 2-5	144	1.90
81/2×11	LWFSM, 2	50	1.00
10×10	SWSM, 1-2-3-4	100	1.95
10×10	SWSM, 3	144	2.75
10×10	SWSM, 1	144	2.45
10×10	LWFSM, 2-3	250	3.20
10×10	SWSM, 2-3	250	3.20
11x14	LWFSM, 2-3	50	2.15
10×20	SWSM, 2-3	100	3.75
18×22	LWFSM, 1-2-3-	4 50	5.50

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Hold 12 pieces cut film, 2½x3¼ to 4x5. Daylight filler cap. List price to 9.00 \$4.50

Please include shipping charges. Excess refunded. Orders received without sufficient postage will be shipped freight cellect. Prices F.O.B. plant, No. Helly-weed. Minimum order \$2.50. 25% de-posit required on all C.O.D.'s Calif. pur-chasers please include 4% Sales Tax.

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36 EXP. MICROFILE the film with the fines ultimate in detail With your order for 100 ft.

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Nominally rated at ASA 300, good results are obtained at ASA 1,000 and 2,000. Popular Photography's editors report in the August issue of available light shets at ASA 4,000 EX Pan has unusually fine and extreme exposure latitude—truly a film of the future! 20 exp. reload 36 exp. reload 27½ th bulk-76c — 3 fer \$2,06 \$1.60 — 3 fer \$2.75 \$2.22

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Daylight loader with 5 cartridges and display the loader with 5 cartridges and display the loader with 5 cartridges and Alace black 4 white film. 2 799 plus 271/2 ft. sech of Ponstonic Alace black 4 white film. 2 88.90 value Shpg. Wt. 4 lbs. and frish 5 1049

BLACK & WHITE RELOADS 36 EXP. 40c ... 60c ...

ALL YEAR B&W ASSORT

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35.00 or more of
builkfilm, or 34.25,
worth of builkfilm
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tongue to assure
smooth loading, Must
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35MM ANSCOCHROME PROCESSING FOR ASA 128

Thanks to Spiratone's exclusive high-speed processing service, you can now take fast COLOR action shots, shoot COLOR in poor light—at speeds higher than were possible with bown film only a few years back!

HS-PEED (ASA, 64, 128) PROCESSING of year 20 exp. 35mm Associations—51.25 (mtg. 25c axtra).

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Your choice of KB14, KB17, KB21 Shipping Charge 10c 20 exposure reload 80c 3 or more (may be assorted) 50c each 36 exposure reload 85c 3 or more (may be assorted) 70c each 50 ft. \$3.75, 100 ft. \$8.89 - Shpg. Chge. 25c per 50 ft.

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35mm Anscochrome, 20 esp. 75
35mm Kodschrome, 25 ft roll 1.15
8mm Kodschrome, 25 ft roll 6mm Kodschrome, 75
8mm Kodschrome, 25 ft roll 1.15
8mm Kodschrome, 21 ft lom Kodschrome, 75
8mm Kodschrome, 20 esp. 75
9 ft roll 1.15

Hirequipt 36 slide MAGAZINES wi

2 for \$3.18 12 for \$18.95 Sh. Wtn. 2 & Remote Centrel Stemote Centrel (whee bought alone).

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Extra strong plastic trays, hold 30
Cardboard and glass slides, intermixed to the strong plastic trays, hold 30
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Sept. 125 Trays in material plays case, a 313 yalon 37.28 Shop. We strong plastic trays, hold 30
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Study trays, hold 36 carbboard and glass slides,
intermized, with index, in
cardboard filing box.
2 for 12 is earry 58,95
\$1,69\$ Shpo. Wes. 2 lbs. and it lbm.
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Quantities

2 x 2 GLASS SLIDEBINDERS

Comparable to Gc slidebinders.

One of the finest methods of mounting transparencies (35mm Argus, Leica size) betw. glassif he biggest bargain in quality slidebinders ever offered. Pregummed Fibreboard, self-centering of slide, provision for type-on titles, dustproof, infires, shockpoof cost of glass alone! May risk fingerprints and scratches on your treplaceable color shorts? 200 fer \$3.50 kmpring Weight 5 lbs.

Sample package of 20 22 glass and 3 22 metal binders, postpaid.

20 Square (Robot, Tenza) Masks \$1.75 | Masks fit glass 200 Square (Robot, Tenza) Masks \$1.75 | Lasks fit glass 22 cardood mounts for single frame Offercury size) transparencies 30 fer \$5c. Sh. Wt. per 100, 1 lb.

SAVE UP TO 2 x 2 METAL SLIDEBINDERS

The ultimate in simplicity! Aluminum glass binders may be used over and over again. Just place transparency between glass, insert in metal non-warp frame. Sample package of 20, 51.50 ppd., 100 for \$8.56, 600 for \$33.56, 1200 feet \$8.30.00, 3000 for \$120.00. Ship. Wts. 4, 21%, 60, 100 lbs.

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58.95 Especially designed for the Leica, Concession, see when the compactness, yet wants room for "everything" (leganity lined and littled to accept filters in france parent pocket, shade, make, filsh, tripod, 2 accessory tendes to 25MH accessories. Windparent for the control of the control

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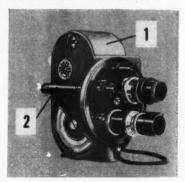
CAMERA GUIDE

(Continued from page 180)

Special Features: Critical focus tube on right side of camera permits through-lens focusing for maximum range accuracy; single frame exposure control.

Last List Price: With 1/2 in., f/2.5 Bell & Howell lens, \$140

Last Reported Used Selling Price Range in 1956: Not available Serial Numbers: Not available



Special Identification Points: 1. Dark gray finish; 2. Critical focus tube is black.

BELL & HOWELL TRI-LENS. MODEL 134-TA

Introduced: 1951 (Currently in production) This camera is the same as the earlier 134-J. above, except for

Last List Price: With 1/2 in., f/2.5 Bell & Howell Comat. \$129.95

Last Reported Used Selling Price Range in 1956: With f/1.9 Super Comat, \$90-\$114

Special Identification Points: 1. Fawn tan finish; 2. Critical focus tube and other trim chrome finished.

BELL & HOWELL 16mm ROLL

Film Capacity: All models take 100-ft. rolls of double perforated 16mm film. Late versions of the 70 DL and all 70 DR take single perforated 16mm film.

Lens Mount: All models listed have C mount.

BELL & HOWELL MODEL 70-D

Note: All models of the 70-D series have a close physical resemblance, with additional features added in later versions. Camera illustrated (page 186) is a Model 70-DL.

Introduced: 1929 Discontinued: 1946 Viewfinder: Negative type, masked for 17mm, 1, 2, 3, 4, and 6 in. lenses.

Operating Speeds (f.p.s.): 8, 12, 16, 24, 32, 48, 64

Shutter Speed at 16 f.p.s.: 1/27 sec. Film Run on One Winding: 22 ft. (Continued on page 184)

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35mm S	ALE -	
	New	Used
Argus C-3, case & flash	\$ 49.50	\$ 34.95
Argus C-4, case & flash	99.50	44.00
Argus C-44, ctd. f2.8	99.50	\$5.50
Bolsey Jubillee 12.8 case &		
flash	79.50	39.00
Canon IV S-2, ILB		128.00
Canon, V. R.S		210.00
Ediza C, ctd f2.8	49.95	29.95
Graphic 35, f3.5, case & flash.		43.75
Kodek Retine II f2		47.50
Kodek Retine IIA f2. Rfdr		64.00
Kodek Rotine IIC f2.8		79.00
Kodek Signet f3.5, case & flash		36,00
Kodak Pony 135, f4.5	29.75	13.95
Kodak Bantam Special, 12		41.00
Konice II ctd F2.8		54.50
Minolte A, ctd f3.5		29.50
Minolta 35, f2.8		95,50
Ricoh 35, f3.5 case & flash		29.00
Voigt Prominent ctd f2		118,50
Voigt Vitesse ctd f2		69.50
Voigt Vitessa I ctd f2		97.50

35mm SINGLE LEI	NS R	EFLEX
	New	Used
Contaffex I, f2.8 ctd Tessar	\$149.50	\$ 44.50
Contaffex II, f2.8 ctd Tesser	199.50	108,30
Exa f2.8 ctd	85.00	34.00
Exakta V, f2 Zoiss	249.50	117.00
Exakte VX, f3.5 ctd Tesser	199.50	124.50
Exakta VX, f2.8 Auto Westener	239.50	134.50
Exakta VX, f2.8 ctd Tesser		
preset	279.50	149.00
Exekte VX, f1.9 ctd Auto Xener.	341.78	185.50
Exekte VX, f1.5 ctd Angenieux	369.50	179.00
Pentacon f2.8 Auto	249.50	108.50
Pentacon f2 ctd Biotar	249.50	87.50
Rectaflex #2 ctd Xenon	329.50	119.50
Praktina F-X f2 Auto Biotar	297.50	179.00
Praktina F-X f2.8 Tassar	192.50	137.50
Prektice F-X ctd f1.9 Meyer		

Rectaffez 12 ctd Xenon	27.50	117.50
LEICA CONTAX NI	KON	SALE
Loice IIIC, f3.8 Elmer Loice IIIC, f2 ctd Summiter	New _	Used \$76.00 95.00
Loica IIIF, 12 etd Summicron Loica IIIF, 12 etd Summitor Loica IIIF, 11.5 etd, Summarit	268.50	140.50 140.50 170.00
Contax II, f2 Senner Contax IIA, f2 ctd Sonner Contax IIA, f1.5 ctd Sonner Contax IIIA, f2 ctd Sonner		64.60 127.00 154.50 168.75
Nikon S 12. Nikon S2 fl.4 ctd Nikkor	-	106.50 218.50

	New	Used
28mm f3.5 Nikker	149.50	76.50
35mm f2.8 ctd Biogen	183.00	75.91
35mm f3.5 ctd Nikkor	89.50	
35mm f3.5 ctd Summaron W.A.	94.00	\$4.00
\$5mm F3 ctd Nikker		85.80
		53.50
135mm f4.5 ctd Hekter	135.00	40.0
135mm #4 Sonnar	146.00	66.50
135mm /3.5 Nikker	135.00	66.50

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for, Exakta, Contax-D	
Praktica, Pentacon	
New	Uses
28mm f3.5 ctd Angenieus\$120.00	\$ 43.6
35mm f2.5 ctd Angenieux 99.58	53.6
35mm f2.8 ctd Auto Zeiss 149.50	88.6
40mm f3.5 Makro E 89.95	35.0
75mm f1.5 Zeiss Biotar 211.50	79.5
90mm f2.5 ctd Angenious 94.58	\$5.0
* 135mm f3.5 ctd Angenieus 89.50	\$1.6
180mm f5.5 ctd Xener	46.6
400mm f5.5 Meye. Tele Meger 195.00	89.5
800mm fé.3 TV Telon 750.00	399.0

21/4 x 21/4 REFLEX	
New	Used
Exakta 66, f2.8 Tossar V-X \$319.50	\$159.50
Kodek Reflex H. ctd f3.5. sync 155.00	47.50
Graffex 22, ctd f3.5 sync 93.50	39.00
Rolleicord IV, f3.5 Xener M-X 134.55	59.50
Rolleicord V, f3.5 Xener M-X 134.55	71.00
Rolleiflex Standard, f3.5 Tesser	46.00
Rolleiffez Auto, f3.5 Tesser	78.50
Richaffen (1) E 99.90	14.00

TRADES ACCEPTED



RETINA III C Latest 1956 model; f2 Xenon in M-X shutter; built-in exposure meter. List \$190.00. Used

10950

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72.8 Pre-set Tesser; clickstops, facal plane shutter; sync for flosh a
strobe.

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Pro-set fl.7 coated Mayo
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shutter; sync for flosh i
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With 135mm f3.5 ctd preset.

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35mm to 5 x 7, 4/4" f6.3 is

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Zeiss Tessor 12.6 iens: sync; eye-level prism: ground glass reagefinder. Case 1.90

1.00 post & ins Used.



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Built-la M-X sync; speed to 1/400th;
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300 w TDC Mainliner, Auto	59.50	26.00
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300 w Brumberger (21/4x21/4)	89.95	33.50
300 w TDC Due (21/4x21/4)	47.50	29.00
300 W TDC Auto \$	47.50	\$ 34.50
300 W Viewlez Projectomatic	79.50	49.50
500 W Kodeslide Signet	72.50	42.50
S00 W La Belle SS, Auto	95.00	46.50
500 W Revere 555, Auto	79.50	40.50
500 W Revere 888, Auto	44.50	40.50
500 W TDC Steree	49.50	74.00

A Inc steree	107.50	74.00		
ENLARGER SALE				
	NEW	USED		
mm Federal 135, f4.5 Cond mm Focomet 1-C f4.5	\$ 54.98	\$ 32.50		
Autofocus	183.00	114,56		
a x 31/4 De Jur 1, 14.5 Cond	99.50	58.50		
a x 31/4 Exect 66, f4.5 Cond	142.75	79.50		
4 z 31/4 Federal 269, f6.3 Diff .	43.95	21.00		
Cond. lens	\$1.98	25.56		
4 x 31/4 Solar 120, f4.5 Cond	114.50	67.56		
4 x 31/4 Sunray, f4.5 Cond	87.50	\$9.50		
a z z z z z z z z z z z z z z z z z z z	142.00	98 88		

4 x 5 Federal 470, 14.5 Good 4 x 5 Solarmetic, f4.5 8 x 7 Elwood S-2, f6.3	169.50	104.50 67.50
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****	New	Mond
	\$299.50	\$117.50
21/4x31/4 Ann Speed Graphic, f4.5 ctd. cpld RF,		
flashgun	219.50	80.50
31/4241/4 Ann Speed Grahic, f4.5, cpld RF, flesh	-	83.50
3%as4% Pacamaker Crown, f4.7 cpld RF, flash	_	117.80
4eS Ann Spood, f4.7 cpld RF,	247.50	87.95
4c5 Pacomakor Speed,		
f4.7 cpld RF, flash		167.50
4eS Linhof, f4.5, cpld RF, flash		197.50 87.50
4x5 B&J, r4.5, cpfd RF, flash 4x5 Busch, f4.5, cpfd RF, flash		87.50

8mm CAMERA	SALE	
84H 212 (2.3 84H 134 W f2.5	New 59.95 87.95	Used 28,50 34,00
Keystone K-26 f1.9 Keystone K-32 f2.5 Revere BB f2.5 Revere 80 f2.5	\$9.95 \$4.75 72.50 97.50	35,50 41,90 28,00 42,00
98H 134 TA f1.9 Kaystone K-35 f2.5 Ravere 99 f2.5 Ravere 84 f1.9	149.95 99.95 99.50 147.50	98.00 57.50 42.50 79.00
B&H 172 B f1.9 Do Jur Fadematic f1.9 Kaystons K-4 f1.9 Kodak f1.9 Revere 40 f2.5	164.98 142.50 164.50 149.50 164.50	87.50 84.50 62.50 54.50 47.00
B&H 172 A f1.9 De Jur Fadematic f1.9 Keystone K-45 f1.9 Revere B-63 f2.8	199.95 174.50 139.50 152.50	114.50 107.50 79.50 81.50

8mm PROJECTO	Now	Used
B&H 253 Monterey 500w	79.98	44,80 87,00
Keystone K-109, 750w Keystone K-70 Bright beam 500w.		71.00 34.00 27.50
Kodek Brownie 300w	125.00 114.50	41.00 45.00
	-	-

16mm CAMERA	Now	Used
88H 200 T f2.5 Turret	174.95	107.71
Cine Kodak K-100, fl.9	249.00	144,50
Kodak Mag fl.9		50.00
Keystone A-12 ctd fl.9 Turret	159.50	- 87.00
Keystone A-9, ctd f2.5	99.50	47.00
16mm PROJECTO	OR S	ALE

IOMM PROJECIC	JK 3	ALE
Bell & Howell 273 A, case	719.98 449.98	248.58
Keystone K-161	159.50	73.00



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CAMERA GUIDE

(Continued from page 182)

Special Features: Continuous run lock.

Last List Price: With 1 in., f/2.7 Taylor Hobson lens, \$193

Last Reported Used Selling Price Range in 1956: With f/1.9 Taylor Hobson, \$120-\$149

Serial Numbers: Not available

Special Identification Points: 1. Does not have critical focuser; 2. Does not have hand crank, nor boss in which hand crank connection is housed; 4. Does not have individual matching viewfinders; has single viewfinder with masks for various lenses. (See photo, 70-DL, page 186.)

BELL & HOWELL MODEL 70-DA Introduced: 1938 Discontinued: 1951 This is the first of the 70-D series with brown crackle finish. It is similar to 70-D except for features listed below.

Special Features: Also has single frame exposure control.

Last List Price: With 1 in., f/2.5 Taylor Hobson lens, \$307.20

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$235-\$280

Serial Numbers: Not available

Special Identification Points: 1. Has critical focuser on right side of turret; 2. Does not have hand crank as original equipment, but later versions were supplied with boss (3) to house hand crank connection which could be added; 4. Same finder as 70-D. (See photo, 70-DL.)

BELL & HOWELL MODEL 70-DE Introduced: 1946 Discontinued: 1951 This camera is similar to 70-DA except for new type of viewfinder.

Viewfinder: First in 70-D series with second turret containing three separate objectives to match field of taking lenses. Covers focal length range from 17mm to 6 in.

Special Features: Single frame exposure control available as an accessory.

Last List Price: With 1 in., f/2.5 Bell & Howell Comat, \$399.50

Last Reported Used Selling Price Range in 1956: Not available Serial Numbers: Not available

Special Identification Points: 1. Critical focuser; 2. May have hand crank; 3. Has hand crank boss; 4. Has matching viewfinders; 5. Does not have parallax adjustment at rear of viewfinder, as on 70-DL. (See photo, 70-DL, page 186.)

BELL & HOWELL MODEL 70-DL Introduced: 1951 Discontinued: 1951 This camera is the same as the 70-DE, except for the viewfinder. (Continued on page 186)



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63	CANON IVS	NEW Used	164.00 99.00	184.50 124.50	199.50 124.50	499.00 259.50	284.00 149.50	264.00 154.00	224.50 134.00	169.50 109.50
$\left[\overline{V_{\bullet}}\right]$	CANON V	NEW Used	200.00 139.50	249.50 169.70	269.00 181.40	509.50 298.40	325.00 215.00	284.00 198.40	244.50 164.70	259.50
	NIKON S2	NEW Used	195.00 117.00			499.00 298.40		345.00 207.00	299.50 179.70	154.50
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CAMERA GUIDE

(Continued from page 184)



Viewfinder: Separate objectives for lenses from 10mm to 6 in. focal length. Brighter images than in 70-DE finder. Also has parallax adjustment to 3 ft., at eyepiece end of finder tube.

Last List Price: With 1 in., f/2.5 Comat, \$361.50

Last Reported Used Selling Price Range in 1956: With f/1.9 lens, \$235-\$280

Serial Numbers: Not available

Special Identification Points: 1. Critical focuser; 2. Hand crank; 3. Boss for hand crank; 4. Matching viewfinders; 5. Parallax adjustment at eyepiece end of viewfinder tube.

BELL & HOWELL MODEL 70-DR

Introduced: 1955 (Currently in production) This camera is mechanically the same as the 70-DL except for the viewfinder.

Viewfinder: Objectives turret is coupled to taking lens turret by coarsetoothed gearing.

Last List Price: With 1 in., f/1.9 Bell & Howell or Taylor Hobson lens, \$385.50

Last Reported Used Selling Price Range in 1956: Not available

Special Identification Points: 1. Viewfinder turret gear-coupled to taking lens turret.



CAMERA CLUBS

(Continued from page 42)

his comments in a tone so low that only the front row can hear? Have you investigated the cost of providing a mike? A mike that works, I mean. 8. Tactful Timing. Do you let the judge ramble on lengthily for the first half of the pictures, then needle him to speed up? How do the members like it when their print or slide in the last half is dealt with hastily? How about telling the judge that a half minute is long enough for comment?

9. Rude Remarks and Bad Manners. Do you have a few pests who heckle or argue with a judge or speaker? I actually heard a boor tell a famous professional photographer, "To me your portraits are just faces; they don't go any deeper than the emulsion on the paper." When some chump drops a brick like that, a club president must be mighty nimble to patch things up. 10. Dirty Darkrooms. Is your club darkroom always left in a mess by a few sloppy members? How about calling a surprise clean-up session some night, have everyone pitch in, wash up trays, tabletops, etc., and restore order?

11. Visas for Visitors. The Schenectady (N.Y.) Photographic Society puts white tags, with names, on all members, gives guests green tags on which they write name and address. During the after-meeting coffee session, members greet each visitor, give him a

sales pitch. They get lots of new members this way. Is your club this smart? 12. Windy Words. Do you find a lot of them in your club bulletin? Is it too long, too sophomoric? Take a quiet poll; find out how many members read it and enjoy it.

13. Promising Performers. Do some members promise to help hang a show or set chairs in place, and then not appear? Couldn't the committee head remind them by phone, the afternoon of the meeting date, and provide substitute helpers if they alibi out?

14. Vague Voting. When you ask for a voice vote on some matter, do you always make the choice clear, explain the pros and cons of both sides of the issue? All too often the voting is rushed through, members don't really understand what gives.

15. Solemn Sessions. Are all your meetings devoted to deep technical discussions? Do you have enough social affairs? Would the club like more coffee-and-doughnut gab fests, an occasional picnic, some Sunday after-noon field trips?—THE END

Camera Club Presidents: Please send us the name and address of your club so it can be listed in the Camera Club section of the Directory of the Photographic Industry. If you are listed you will receive material sent out periodically by certain photographic firms. Write: The Camera Clubs Editor, MOD-ERN PHOTOGRAPHY, 33 West 60th St., New York 23, N. Y.



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Dr. Cinema says:

by DICK HAM

Lighting problems? Here are a few hints that may clear up those ghoulish looking shadows.



Over the clattering of his projector my neighbor shouted, "Now what's wrong with that lighting, Dick? Somehow, it just doesn't look right." At that particular moment, Mrs. Neigh-

bor filled the screen and turned on a rather embarrassed smile. Her nose, a bit prominent all by itself, was advertised even further by two equal nose shadows extending across each cheek. The total effect was more suggestive of an axe murderer than that of a dearly loved partner for life.

Now light is light, whether it happens to be indoors or outdoors. Since this sort of "butchery by light" (as William Mortensen used to call it) seems to crop up in a goodly number of amateur films, it might be worthwhile to run through a little thinking about light in general.

Even though we plan on doing our actual shooting indoors with artificial light, let's first take a look outside and notice a few things about sunlight. First of all, on cloud and smog free days, nature provides us with a strong, single source of directional light which we generally refer to as the sun and some photographers call the main source. What these photographers really mean is that the strongest main light on the subject is coming from one direction. So let's call that light number one-or the main source.

The fill light

When a light as strong as the sun reflects off of light colored things like the sides of buildings, the pavement, wheat fields, sand and such, it bounces up and all around, filling in the shadows which have been cast by this main source. Now this kind of light has been classified as glare by people generally and as fill light by photographers particularly. But the upshot of all this is that this fill light fills in the shadows, so that the eye can see some detail in them. We can call this light number two-or the fill-in.

Film has to be able to see detail in both the highlights and the shadows at the same time. The human eye, on the other hand, can quickly re-adjust itself to either highlight or shadow. It stands to reason that when photographing an object under a main source, the shadows have to be filled in just a bit lighter than they normally

appear. At any rate, these two lights are the backbone of almost any kind of lighting.

Meanwhile, Mrs. Neighbor's smile is still plastered across the screen. Her trouble is that she is being lit by two main sources at the same time. each casting its own nose shadow. All Mr. Neighbor has to do is to raise one of the lights so that it casts a small butterfly-like shadow beneath her nose, and becomes the main or number one light. Then he must pull the second (or fill-in) light back by the camera, so that it reads one and one half fnumbers less exposure than the main light when measured separately. The actual shooting exposure will, of course, be determined with both the main source and the fill-in light turned on. Two more lights can be utilized handily-one to light up the background separately from the subject, and the other to shine down on Mrs. Neighbor's head, putting highlights into her new permanent and preventing her partially blonde hair from looking like the brunette's next door.

Use a viewing glass

So much for this primer-like approach to lighting, both inside and outside. Sometimes, it's rather hard to see just what artificial light is doing. For this reason, many professional photographers use a monochromatic viewing glass, or filter. The whole purpose of this filter is to subtract most of the color from the scene when you look through the filter. This way, you can more realistically appraise the subject in terms of highlights and shadows.

These viewing filters can be purchased in a sort of over-all green, blue, or dirty brown color. My own preference is for the last type, since this neutral shade doesn't favor one color over another. Those of you who like to make your own can combine a Wratten 23A gelatin filter with a Wratten 61 and bind the sandwich between glass. Anyone attempting to use artificial light should really get to know how to use one of these glasses. because they can be quite a film-saver.

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For more information on Fritz Henle's new book on Rollei Photography see page 129

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FER-COLOR MODEL 3

(Continued from page 113)

surface mirror optical system (see below) is really about as sharp, crisp, and brilliant as such an image is ever likely to get. The mild heat from



Projected image passes through Steinheil f/2.8, 50mm Cassar lens and is then reflected by mirror to screen.

the low wattage bulb is quickly dispersed by a heavy ribbed and finned lamp housing without the need for a blower system. Heat is so negligible that few slides even "pop." The third slide inserted in the slide carrier automatically centers the second and the first slide is pushed out to be easily replaced in the sequence box. For groups of people up to, say six, this method of showing slides is adequate. Distortion, color refraction, uneven illumination? It doesn't exist to any visible degree. Although you can have subdued house lighting on, the best images are seen when all lights are off.

Now suppose you arrive to show your pictures and instead of a small group of friends a miniature army clamors for



Rheostat, voltmeter make Fer-Color suitable for U. S. or continental currents. Also serve to check house current.

your masterpieces? You push in on the ends of the struts holding the projector lid. It then folds flat and you can project on the wall or a regular screen. The 50mm lens system gives you a 3 x 3 foot image at a projection distance of only three feet, fine for small rooms. The brilliance of the image is amazing, considering the low wattage bulb-a real tribute to the efficient optical system. Don't expect the brilliance of a 300 or 500 watt projector with wall projection however. Your snappiest show will always be on the built-in screen.

The other features of the projector

that make you think of a fine watch when you examine it are many-the fine mirror adjustment for vertical rise in image projection, the bayonet mount of the lamp housing which facilitates bulb changing, the quickly and easily removed condenser system, the heavy clips which hold the screen in place but make a neat and fast job of changing screens when one gets dirty, the light metal adapter to prevent any possible jamming when using cardboard mounts rather than glass mounts. The voltmeter is a real handy gadget, incidentally, for checking house current. A glance at the meter indicates whether you are getting full voltage on your house lines.

As you can readily see, the Fer-Color



Fer-Color closed for carrying is smaller than most portable typewriters.

made in Italy by Ferrania impressed us muchly. In a three-month test it never jammed or overheated. It has none of the automatic slide changing features we often expect in an instrument in its price range and it will never fill the reeds of a large audience and big screen, but for small audience shows. portability and precision, it will be hard to beat.-н. к.

SOLIGOR 66

(Continued from page 114)

stops automatically at the correct point. Advancing the film also cocks the cloth focal plane shutter. You can't make a double exposure with the Soligor 66even intentionally.

Shutter speeds are from 1/25 to 1/500 sec., plus bulb, and can be adjusted before or after winding film. The shutter is synchronized for electronic flash at 1/25 sec., and No. 6, 26, 31 and 2A flashbulbs at all speeds.

The camera handled well under actual photographic conditions. It balances well and has just enough weight to give it that substantial feeling. Lens performance was good, with sharp images obtained at all openings down to the smallest, f/22.

The Soligor's list price is \$99.95. It is distributed by Interstate Photo Supply Corp., New York, N. Y.

-NORMAN ROTHSCHILD

NOVOFLEX

(Continued from page 113)

underneath the lens. There is also a lock grip on the side of the camera to be used when you wish to keep the same focus.

"I tried using Plus-X film at an opening of f/5.6 at 1/1000 second and also Tri-X at f/16 at 1/1000 second. There's a reason why a slow film and large lens aperture is preferable to a fast film and small lens aperture. A single lens reflex or camera with a reflex housing is easier to focus at a wider opening. And you simply don't have time to focus wide open and then shut down before taking the picture. The lens does not have an automatic or preset diaphragm which might make such a technique possible. However, as the lens is, it makes the job of a sports photographer much easier."

The Follow Focus is available with the Novoflex 240mm, f/4.5 and 300mm, f/5.6 long focus lenses for Exakta, Praktica, Praktina, Alpa, Rectaflex and other



single-lens reflex cameras. With Leica, Contax, Canon, and Nikon cameras, etc., only the 300mm f/5.6 can be fitted. Price of either lens in Follow Focus mounts \$249.50. The same lens can be used on more than one camera by means of a small adapter ring. In addition, the 400mm f/5.6 Novoflex long focus lens can be used on the new mount by means of an inexpensive adapter.—THE END

MIRANDA

(Continued from page 112)

solid feeling light metal alloy, appears well made and nicely finished. Mechanically the camera worked well in three months of use. There are two body shutter releases, one on top of the camera which unscrews to uncover the cable release socket and another on the right front of the camera. There are two European type push-on flash outlets on the camera front for X and FP sync. But the camera was not tried with either flash or electronic flash.

How well will the camera stand up under constant use? When will it be available? How much will it cost? There are three big questions yet to be answered.—H. K.

LUMMA

(Continued from page 114)

can release the shutter with either hand.
As complicated as the camera sounds

As complicated as the camera sounds and is, it is amazingly easy to handle. You can focus or release the shutter while maintaining a secure two-handed grip on the camera. Changing from a normal to a wide angle lens takes only a brief few seconds.

The Lumma Report is beautifully made from light metal alloy castings nicely finished in leather trim. It seems no heavier than many conventional 2½ x 3½ press cameras with standard equipment even with its two sets of lenses and ground glass.

Although the Lumma Report fascinated every photographer who saw it, no one was quite sure for what purpose it could be used most efficiently. If its combinations of ground glass focusing, and two complete lens systems suit your needs, write the maker, Cesare Tiranti. Construzione Apparecchi Fotografici. Viale del Mura Aurelie, 19, Rome, Italy for the price of the Lumma.—NORMAN ROTHSCHILD

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KEYSTONE

(Continued from page 121)

sary to use the right eye for focusing. Some people may prefer to use the left eye. However, with a bit of practice we learned to use the right eye fairly well.

The most important thing about the K33-Z is the kind of movies it takes. We found the results of several hundred feet of film to compare admirably with footage taken with regular lenses. For all practical purposes, footage that was correctly exposed and focused was sharp.

A special joy with the K33-Z is the ease of loading. Spool film is dropped into place, the leader run around one post, into the film gate, and then to the takeup spool.

Two factors must be kept in mind at all times when shooting with a zoom lens.

1. There is a great difference between the zone of sharp focus when filming with a zoom lens at the 9.5mm focal length and when using it in telephoto position. While the main subject will remain sharp through the zoom if focusing is accurate, there is a danger of foreground and background objects going out of focus at the 28.5mm setting. If you shoot with a zoom lens, equip yourself with a table giving the depth of field (zone of sharp focus) for each position on the lens. You can then select the proper focus setting for the f-number you are employing. This way, maximum sharpness can be obtained.

2. Don't get zoom happy. The zoom effect is a means for better movie making—and not the whole movie. A film that zooms in and out is going to make for a seasick audience. Use the zoom with caution. Make it slowly and use it only where needed. Intersperse zoom effects with regular cuts—long shot, medium shot and close-up.

The K33-Z is manufactured by the Keystone Camera Co., and sells for \$239.50. A magazine version sells for \$249.50.—M. A. M.

REVERE

(Continued from page 120)

A feature of the C-103 we especially like is the placement of the footage indicator and frames per second dials. Both are adjusted by knurled knobs and are located on top of the camera—at about the same level as the rear eyepiece, as in photo at the bottom, page 120. You simply drop the camera slightly below your viewing eye to read both dials.

The footage indicator is geared to the camera mechanism itself. Frames per second settings can be changed while the camera is running.

Speed settings provided on the dial

are 16, 24, 32, 48, and 64 fps. We missed having a choice of 8 fps. The slower speed can be especially useful in low light situations and in titling.

The shutter release is located high on the right side of the C-103—just about the best place for the right index finger to get at it while the rest of the hand maintains a good, steady grip on the camera. The shutter release has three positions—single frame, run, and a continuous run lock.

In addition to the regular shutter release, two cable release thread mounts are provided on top of the camera in front of the speed indicator. One connection is for continuous run, while the other is for single frame operation.

The spring motor wind crank on the C-103 is a big, comfortable affair. Fully wound, the motor has enough run to expose 28 feet of film. When pressure on the shutter release is relaxed, the camera comes to a stop without noticeable chatter. The governor-controlled motor comes to a dead stop at the end of the 28-foot wind—without the dying gasp often encountered.

One rather professional feature on the C-103 is manual operation of the camera when the spring wind runs out. Exposure can be continued by simply locking the shutter release on continuous run and turning the wind crank clockwise.

There's little doubt that the C-103 looks a bit odd and ungainly—but its appearance really belies the truth. Its weight, when equipped with wide-angle, normal, and 6-in. telephoto lens is only about 7½ lb. We found it well balanced and comfortable throughout long shooting periods.

There are some minor points about the C-103 that bothered us—but only slightly. The rear eyepiece, we feel, is somewhat too small for comfortable viewing. We would also have liked more working room around the film gate for cleaning. While the gate retracts easily, it does not go back far enough for easy brush insertion.

If a back wind for dissolves and double exposures is important in your movies, you won't find it on the C-103.

We made extensive, practical tests of the C-103 and found that it can take a beating and keep on operating. The films that resulted were sharp—shot at many speeds and lens opening combinations.

Looking at the camera as a unit, we feel that it stood up well in most departments against cameras costing more.

The C-103 is made by the Revere Camera Co., Chicago. It sells for \$169.50 with a Wollensak 25:nm f/2.5 (1-in.) fixed focus, Wocoted lens; \$194.50 with a Wollensak 25mm focusing f/1.9 lens; and \$252.50 with a 25mm f/1.5 focusing lens. Another model, the C-101 is available without the turret.—M. A. MATZKIN

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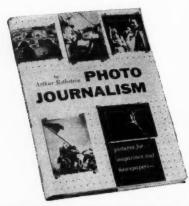
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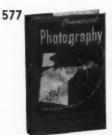
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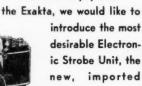
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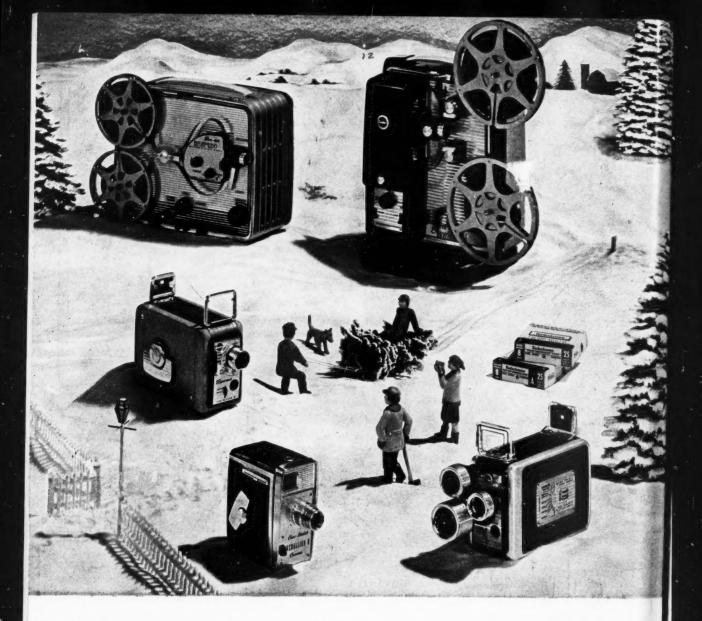
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